

CORRES. CONTROL  
OUTGOING LTR NO.

DOE ORDER #

05RF00183



February 17, 2005

05-RF-00183

DIST.	LTR	ENC
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TRANSMITTAL OF THE FINAL CLOSEOUT REPORT FOR IHSS GROUP 900-11,  
IHSS 112 - 903 PAD - KLW-013-05

COR. CONTROL	X	X
ADMN. RECORD	X	X
WASTE REC. CTR		
TRAFFIC		
PATS/130		

Enclosed are copies of the Final Closeout Report for IHSS Group 900-1, IHSS 112 - 903 Pad for you files. Previous comments have been incorporated and the document was approved by CDPHE on January 13, 2005.

CLASSIFICATION:	
UCNI	
UNCLASSIFIED	
CONFIDENTIAL	
SECRET	

If you have any questions, please contact me at extension 9883.

*Karen L. Wiemelt*  
for *Norma Castaneda*  
Karen L. Wiemelt  
Manager, Environmental Restoration Programs

KLW:dm

Date

IN REPLY TO RFP CC  
NO:

Orig and 1 cc - Joseph Legare  
cc: Norma Castaneda

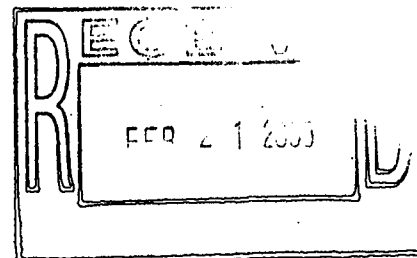
ACTION ITEM STATUS

- ☐ PARTIAL/OPEN  
☐ CLOSED

Enclosures:  
As Stated

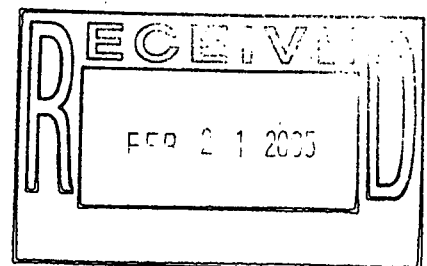
LTR APPROVALS:

ORIG &amp; TYPIST INITIALS



**Closeout Report  
for IHSS Group 900-11**

**IHSS 112 - 903 Pad (903 Drum Storage Area)**



**January 2005**

**Closeout Report  
for IHSS Group 900-11**

**IHSS 112 - 903 Pad (903 Drum Storage Area)**

Approval received from the U.S. Environmental Protection Agency  
(January 13, 2005).

Approval letter contained in the Administrative Record.

**January 2005**

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## ENCLOSURE

Complete Data Set Compact Disc – Accelerated Action Data

## ACRONYMS

AAESE	Accelerated Action Ecological Screening Evaluation
AL	action level
ALARA	As Low As Reasonably Achievable
AR	Administrative Record
ASD	Analytical Services Division
BGS	below ground surface
BZ	Buffer Zone
BZSAP	Buffer Zone Sampling Analysis Plan
CAD/ROD	Corrective Action Decision/Record of Decision
CAS	Chemical Abstracts Service
CD	compact disc
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CHWA	Colorado Hazardous Waste Act
CMS/FS	Corrective Measures Study/Feasibility Study
COC	contaminant of concern
CRA	Comprehensive Risk Assessment
CY	cubic yard
DOE	U.S. Department of Energy
dpm/100 cm <sup>2</sup>	disintegrations per minute per 100 square centimeters
DQA	Data Quality Assessment
DQO	data quality objective
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
ER RSOP	Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation
ft	foot
ft <sup>2</sup>	square feet
FY	Fiscal Year
HRR	Historical Release Report
IHSS	Individual Hazardous Substance Site
IM/IRA	Interim Measure/Interim Remedial Action
IMP	Integrated Monitoring Plan
K-H	Kaiser-Hill Company, L.L.C.
LCS	laboratory control sample
LLMW	low-level mixed waste
LLW	low-level waste
MDA	minimum detectable activity
MS	matrix spike
MSD	matrix spike duplicate
nCi/g	nanocuries per gram
NFAA	No Further Accelerated Action
NLR	no longer representative
OPWL	Original Process Waste Lines

OU	Operable Unit
PAC	Potential Area of Concern
PARCCS	precision, accuracy, representativeness, completeness, comparability, and sensitivity
pCi/g	picocuries per gram
QA	quality assurance
QC	quality control
RAO	remedial action objective
RCR	Regulatory Contact Record
RCRA	Resource Conservation and Recovery Act
RFCA	Rocky Flats Cleanup Agreement
RFETS or Site	Rocky Flats Environmental Technology Site
RFI/RI	RCRA Facility Investigation/Remedial Investigation
RIN	report identification number
RL	reporting limit
RSOP	RFCA Standard Operating Protocol
SAP	Sampling and Analysis Plan
SOR	sum of ratios
SSRS	Subsurface Soil Risk Screen
SWD	Soil Water Database
TRM	transuranic mixed waste
V&V	verification and validation
VOC	volatile organic compound
WRW	wildlife refuge worker

## **EXECUTIVE SUMMARY**

This Closeout Report summarizes the accelerated action activities conducted at Individual Hazardous Substance Site (IHSS) Group 900-11, IHSS 112 – 903 Pad (903 Drum Storage Area) at the Rocky Flats Environmental Technology Site (RFETS or Site) in Golden, Colorado.

Other IHSSs or Potential Areas of Concern (PACs) that are part of IHSS Group 900-11 include the following:

- IHSS 140 – the Hazardous Disposal Area, which was proposed for no further accelerated action (NFAA) in 1998 and in 2003 (DOE 1998, 2003a); and was addressed in accordance with Buffer Zone (BZ) Sampling and Analysis Plan (SAP) (BZSAP) Addendum #BZ-04-01 (DOE 2003b) and IHSS 900-11 Interim Measure/Interim Remedial Action (IM/IRA) (DOE 2004a),
- PAC SE-1602 – the East Firing Range, which was addressed in BZSAP Addendum #BZ-04-11 (DOE 2003c), and the IHSS 900-11 Interim Measure/Interim Remedial Action (IM/IRA) (DOE 2004a);
- IHSS Site 155 – the 903 Lip Area was addressed in three documents: BZSAP Addendum #BZ-04-01 (DOE 2003b), the Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol (RSOP) (ER RSOP) Notification #03-07 (DOE 2003a), which addresses the 903 Inner Lip Area, and the IHSS 900-11 IM/IRA, which addresses the 903 Outer Lip Area.

Accelerated action activities were planned and executed in accordance with the Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol (RSOP) for Routine Soil Remediation (ER RSOP) (DOE 2003). Notification of the planned activities was provided in ER RSOP Notification #02-09 (DOE 2002a), which was approved by the U.S. Environmental Protection Agency (EPA) on October 9, 2002 (EPA 2002). This Notification was written and approved following RFCA Tier I and Tier II action levels (ALs). However, RFCA Attachment 5 was modified during the project. Remedial goals for the 903 Pad were in accordance with the RFCA Modification (DOE et al. 2003).

Releases at the 903 Pad (IHSS 112) are considered the primary source of radiological contamination in the surficial soil in this area of RFETS. Drums that contained hydraulic fluids and lathe coolant contaminated with plutonium and uranium were stored at this location from summer of 1958 until January 1967. Approximately three-fourths of the drums contained liquids contaminated with plutonium while most of the remaining drums contained liquids contaminated with uranium. Of the drums containing plutonium, the liquid was primarily lathe coolant and carbon tetrachloride in varying proportions. Vacuum pump oils, trichloroethene, tetrachloroethene, silicone oils, and acetone still bottoms were also stored in the drums (DOE 1992-2003).

Accelerated action objectives were developed and described in ER RSOP Notification #02-09 (DOE 2002a). The original accelerated action remediation goals for IHSS 112 that were included in the ER RSOP Notification were achieved by the following steps:

1. Remove asphalt and dispose of as low-level waste (LLW);
2. Remove and dispose of fill, as appropriate, pending waste characterization;
3. Remove the top 1 foot (ft) of native soil at the 903 Pad and additional soil, as necessary, to remove all soil with contaminant concentrations greater than RFCA WRW ALs (and as indicated by stewardship evaluations) and dispose of, as appropriate, pending waste characterization;
4. Evaluate the remaining soil for additional removal through the consultative process using stewardship considerations (DOE 2003c); and
5. Backfill with clean soil, regrade, and revegetate.

The majority of the accelerated action activities were conducted between November 14, 2002 and December 5, 2003. The following tasks were conducted at IHSS 112 - 903 Pad:

1. Removed approximately 4,467 cubic yards (cy) of asphalt for disposal as LLW;
2. Removed and characterized fill material for appropriate disposal (including 43 cy of concrete associated with a concrete slab on the western side of the 903 Pad);
3. Removed and disposed of approximately 20,213 cy of soil with contaminant concentrations greater than WRW ALs;
4. Collected confirmation samples in accordance with ER RSOP Notification #02-09 (DOE 2002a); and
5. Backfilled with clean soil, regraded, and revegetated the disturbed area, and added erosion matting to the disturbed area.

Confirmation sampling was conducted throughout the removal activity in accordance with ER RSOP Notification #02-09 (DOE 2002a). One confirmation sample was collected in each of the 225 grid cells covering the 3.4 acres of the 903 Pad.

Based on the WRW ALs, RFCA sums of ratios (SORs) were calculated for the IHSS 112 confirmation, random, and bias sampling locations down to 3 ft. SOR calculations were based on accelerated action analytical data for the radionuclides of concern, and all SORs for radionuclides in surface soil from 0 to 3 ft were less than 1.

Currently, all 903 Pad actions have been completed.

Results of the accelerated action justify NFAA for this site. Justification is based on:

- Removal of soil with contaminant concentrations greater than WRW ALs to a depth of 3 feet and greater based on the consultative process;
- Confirmation sampling results;
- Results of the Subsurface Soil Risk Screen (SSRS); and
- Results of the Stewardship Evaluation.

## 1.0 INTRODUCTION

This Closeout Report summarizes the accelerated action activities conducted at Individual Hazardous Substance Site (IHSS) Group 900-11, IHSS 112 – 903 Pad (903 Drum Storage Area) at the Rocky Flats Environmental Technology Site (RFETS or Site) in Golden, Colorado.

Other IHSSs or Potential Areas of Concern (PACs) that are part of IHSS Group 900-11 include the following:

- IHSS 140 – the Hazardous Disposal Area, which was proposed for no further accelerated action (NFAA) in 1998 and in 2003 (DOE 1998, 2003a); and was addressed in accordance with Buffer Zone (BZ) Sampling and Analysis Plan (SAP) (BZSAP) Addendum #BZ-04-01 (DOE 2003b), and IHSS 900-11 Interim Measure/Interim Remedial Action (IM/IRA) (DOE 2004a),
- PAC SE-1602 – the East Firing Range, which was addressed in BZSAP Addendum #BZ-04-11 (DOE 2003c), and the IHSS 900-11 Interim Measure/Interim Remedial Action (IM/IRA) (DOE 2004a);
- IHSS Site 155 – the 903 Lip Area, which was addressed in three documents: BZSAP Addendum #BZ-04-01 (DOE 2003b), the Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol (RSOP) (ER RSOP) Notification #03-07 (DOE 2003a), which addresses the 903 Inner Lip Area, and the IHSS 900-11 IM/IRA, which addresses the 903 Outer Lip Area.

**Table 1 IHSS Group 900-11 Decision Document History**

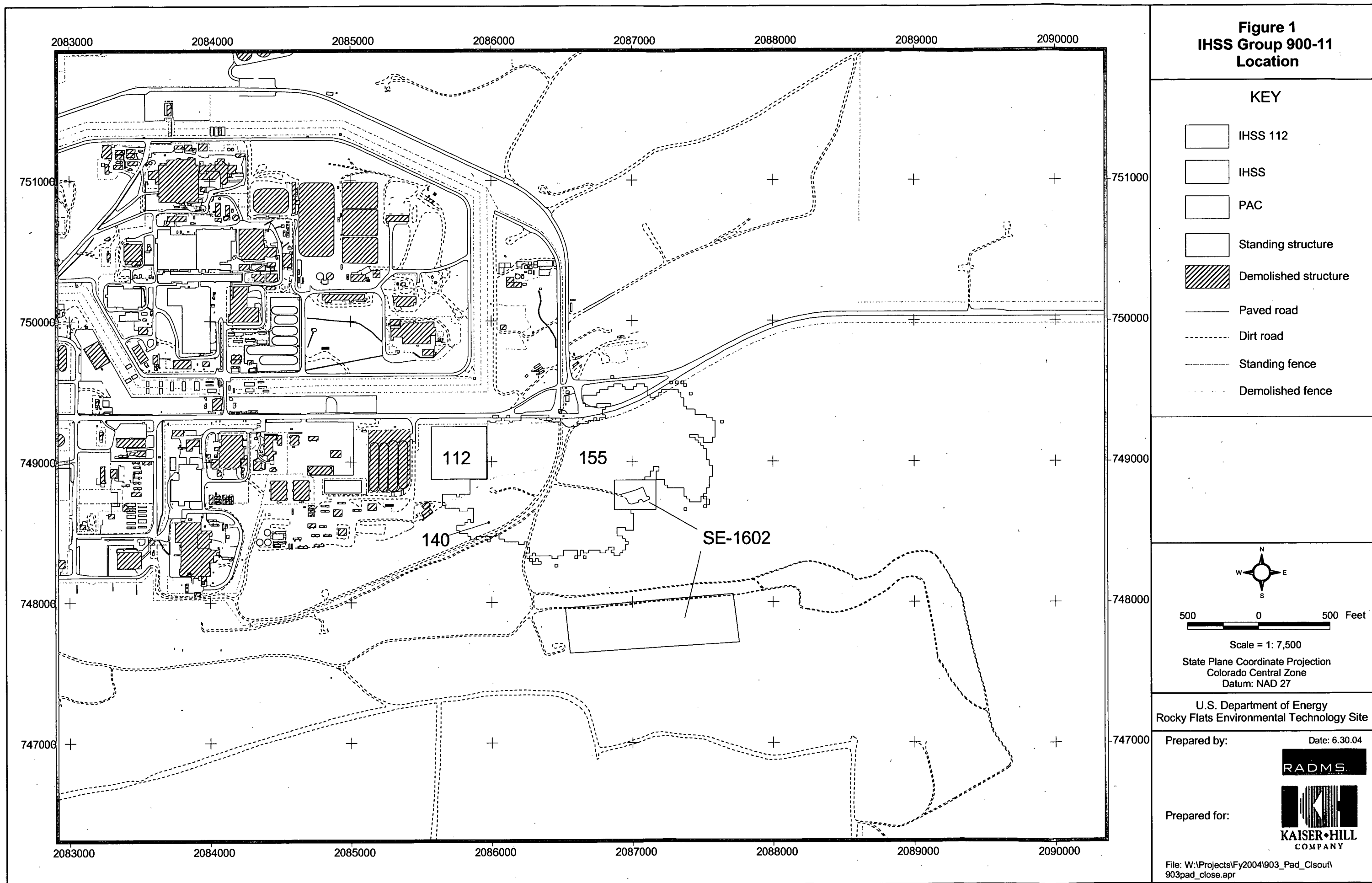
IHSS/PAC	NFAA Justification	Sampling	Remediation
IHSS 112 – 903 Pad	NA	NA	ER RSOP Notification 02-09 (DOE 2002a)
IHSS 155 – Inner Lip and Parts of the Outer Lip	NA	BZSAP Addendum BZ-04-01 (DOE 2003b)	ER RSOP Notification 03-07 (DOE 2003d)
IHSS 155 – Outer Lip	NA	NA	Interim Measure/Interim Remedial Action for IHSS Group 900-11 (903 Lip Area and Vicinity, The Windblown Area, and Surface Soil in Operable Unit 1 [881 Hillside] (DOE 2004a)
IHSS 140 – Hazardous Disposal Area	1998 Annual Update to the Historical Release Report (DOE 1998)  2003 Annual Update to the Historical Release Report (DOE 2003a)	BZ-04-01 (DOE 2003b)	Interim Measure/Interim Remedial Action for IHSS Group 900-11 (903 Lip Area and Vicinity, The Windblown Area, and Surface Soil in Operable Unit 1 [881 Hillside] (DOE 2004a)
PAC SE-1602 – East Firing Range	NA	BZSAP Addendum BZ-04-11 (DOE 2003c)	Interim Measure/Interim Remedial Action for IHSS Group 900-11 (903 Lip Area and Vicinity, The Windblown Area, and Surface Soil in Operable Unit 1 [881 Hillside] (DOE 2004a)

The location of IHSS 112 and the other sites within IHSS Group 900-11 are shown on Figure 1. Activities conducted in the 903 Inner and Outer Lip Areas (including IHSS 140 and PAC SE-1602 will be discussed in a separate Closeout Report.

Accelerated action activities were planned and executed in accordance with the Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol (RSOP) for Routine Soil Remediation (ER RSOP) (DOE 2003e). Notification of the planned activities was provided in ER RSOP Notification #02-09 (DOE 2002a), which was approved by the U.S. Environmental Protection Agency (EPA) on October 9, 2002 (EPA 2002). This Notification was written and approved using RFCA Tier I and Tier II action levels (ALs). However, RFCA Attachment 5 was modified during the project. Remedial goals for the 903 Pad were in accordance with the RFCA Modification (DOE et al. 2003).










This report contains the information necessary to demonstrate achievement of cleanup objectives and closure of IHSS 112, including:

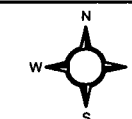
- Site accelerated action information;
- Description of the accelerated action, including the rationale for the action and map of the target remediation area;
- Map of the actual remediation area, including bounds of the excavation, and dates and durations of specific remedial activities;
- Photographs documenting site characterization, remediation, and reclamation activities;
- Confirmation sampling data (as applicable), including data tables and location maps, as well as a comparison of the confirmation data to applicable cleanup goals;
- Description of Resource Conservation and Recovery Act (RCRA) unit closure activities (as applicable);
- Description of deviations from the ER RSOP;
- Description of the Subsurface Soil Risk Screen (SSRS);
- Description of near-term stewardship actions and long-term stewardship recommendations;
- Disposition of wastes;
- Site reclamation;



**Figure 1**  
**IHSS Group 900-11**  
**Location**

**KEY**

-  IHSS 112
-  IHSS
-  PAC
-  Standing structure
-  Demolished structure
-  Paved road
-  Dirt road
-  Standing fence
-  Demolished fence



500 0 500 Feet

Scale = 1: 7,500

State Plane Coordinate Projection  
Colorado Central Zone  
Datum: NAD 27

U.S. Department of Energy  
Rocky Flats Environmental Technology Site

Prepared by:

Date: 6.30.04

**RADMS**

Prepared for:



File: W:\Projects\Fy2004\903\_Pad\_Clsout\903pad\_close.apr



- Table of no longer representative (NLR) locations and sample numbers that have been remediated (as applicable). These data will be used to mark database records so they are not used in the Comprehensive Risk Assessment (CRA) or other Site analyses; and
- Data Quality Assessment (DQA).

Approval of this Closeout Report constitutes regulatory agency concurrence that IHSS 112 is an NFAA site. This information and NFAA determination will be documented in the Fiscal Year (FY) 2005 (05) Historical Release Report (HRR).

## **2.0 SITE CHARACTERIZATION**

IHSS 112 characterization information consists of historical knowledge and analytical data. Historical information for IHSS 112 was derived from previous studies (DOE 1992-2003, 1999a, 1999b) and is summarized in Sections 2.1 and 2.2. A compact disc (CD) that contains the accelerated action data set, including quality assurance (QA) and quality control (QC) data, is included with this report. The CD contains a standardized data set; that is, analyte names, Chemical Abstracts Service (CAS) numbers, and units were standardized, and derived analytes were provided.

Accelerated action analytical data were collected in accordance with ER RSOP Notification #02-09 (DOE 2002a) and the BZSAP (DOE 2002b).

### **2.1 IHSS 112 - 903 Pad (903 Drum Storage Area)**

Waste releases at the 903 Pad (IHSS 112) are considered the primary source of radiological contamination in surface soil in this area of RFETS. Drums that contained hydraulic fluids and lathe coolants contaminated with plutonium and uranium were stored at this location from the summer of 1958 through January 1967. Approximately three-fourths of the drums contained liquids contaminated with plutonium while most of the remaining drums contained liquids contaminated with uranium. Of the drums containing plutonium, the liquid was primarily lathe coolant and carbon tetrachloride in varying proportions. Vacuum pump oils, trichloroethene, tetrachloroethene, silicone oils, and acetone still bottoms were also stored in the drums (DOE 1992-2003, 1999a).

Leaking drums were noted during routine handling operations in 1964. The contents of the leaking drums were transferred to new drums and the area was fenced to restrict access. When cleanup operations began in 1967, 5,237 drums were at the drum storage site. Approximately 420 drums leaked to some degree. Of these, an estimated 50 drums leaked their entire contents. Historical documents indicate approximately 5,000 gallons of contaminated liquid containing approximately 86 grams of plutonium was estimated to have leaked at the 903 Pad (DOE 1992-2003, 1999a).

Drum removal from the area began in January 1967 for drums that were in the storage area for six months or less. In August 1967, soil and rock contaminated by rainwater runoff from the fenced area (east and downgradient of the storage area) were shoveled up

and deposited inside the fence. An attempt was made to regrade the surface to prevent the spread of contamination. In June 1968, the drums and pallets were cleared from the area and shipped off site in waste boxes. The 100,000-square-foot (ft<sup>2</sup>) area was contaminated with activities ranging from 2,000 to 300,000 disintegrations per minute (dpm) per 100 square centimeters (cm<sup>2</sup>). Vegetation was burned from the area in October 1968 in preparation for soil removal (DOE 1992-2003, 1999a).

The soil in the area exhibiting the greatest contamination was covered with fill material, soil sterilant, asphalt prime coat, and asphalt in November 1969. However, during drum removal and cleanup activities, wind and rain (stormwater erosion) spread plutonium-contaminated solids to the east and southeast from the 903 Pad area resulting in IHSS 155 (the 903 Lip Area). Several limited excavations resulted in the removal of some of the plutonium-contaminated soil from the Lip Area (DOE 1992-2003). However, results from the Operable Unit (OU) 2 Phase II RCRA Facility Investigation/Remedial Investigation (RFI/RI) (DOE 1995) sampling and analysis confirm that radiologically contaminated soil remained.

Surface soil east and southeast of the Lip Area also exhibit elevated plutonium-239/240 and americium-241 activities. This contamination is primarily attributed to wind dispersion from the 903 Pad with potential contributions from historical fires, stack effluent, and stormwater related surface soil erosion. Areas exhibiting elevated plutonium and americium activities east and southeast of the Lip Area are known as the Americium Zone (DOE 1992-2003).

## **2.2 Preaccelerated Action Characterization Data**

Preaccelerated action soil sampling locations and analytical results for IHSS 112 are presented in the Characterization Report for the 903 Drum Storage Area, 903 Lip Area, and Americium Zone (DOE 1999b). These data represent the most comprehensive soil characterization at the 903 Pad and were used in determining many of the parameters associated with this accelerated action.

## **3.0 ACCELERATED ACTION**

Accelerated action objectives were developed and described in ER RSOP Notification #02-09 (DOE 2002a). ER RSOP remedial action objectives (RAOs) include the following:

- Provide a remedy consistent with the RFETS goal of protection of human health and the environment;
- Provide a remedy that minimizes the need for long-term maintenance and institutional or engineering controls; and
- Minimize the spread of contaminants during implementation of accelerated actions.

The original accelerated action remediation goals for IHSS 112 that were included in the ER RSOP Notification were achieved by the following:

1. Remove asphalt and dispose of as low-level waste (LLW);
2. Remove fill and dispose of, as appropriate;
3. Remove the top 1 foot (ft) of native soil at the 903 Pad and additional soil as necessary to remove all soil with contaminant concentrations greater than RFCA WRW ALs or to 3 feet below the surface (and as indicated by the As Low As Reasonably Achievable [ALARA] and stewardship evaluations) and dispose of, as appropriate, pending waste characterization;
4. Evaluate remaining soil for additional removal through the consultative process using stewardship and ALARA considerations (Sections 5.4 and 5.5 of the ER RSOP [DOE 2003d]); and
5. Backfill with clean soil, regrade, and revegetate.

The majority of the accelerated action activities were conducted between November 14, 2002 and December 5, 2003. Start and end dates of significant activities are listed in Table 2. Photographs of the 903 Pad accelerated action activities are provided in Appendix A.

**Table 2**  
**Dates of Accelerated Action Activities**

Activity	Start Date	End Date
Removal Activities	November 14, 2002	December 5, 2003
Backfill Excavations	November 14, 2002	December 5, 2003
Revegetate	September 27, 2004	October, 2004

### 3.1 Removal Activities

The removal activities for IHSS 112-903 Pad included the following:

- Removed approximately 4,467 cubic yards (cy) of asphalt for disposal as LLW;
- Removed and characterized fill material for appropriate disposal (including 43 cy of concrete associated with a concrete slab on the western side of the 903 Pad);
- Removed and disposed of all native soil at the 903 Pad necessary for the removal of all soil with contaminant concentrations greater than WRW ALs (approximately 20,213 cy);
- Collected confirmation samples in accordance with ER RSOP Notification #02-09 (DOE 2002a) and the BZSAP (DOE 2002b); and
- Backfilled excavated areas with clean soil and regraded, as well as revegetated the disturbed area and added erosion matting.

Two mobile tents were used to protect the excavation from weather conditions and mitigate possible weather delays. The footprint dimensions of each tent were 90 by 110 ft, covering a 9,900-ft<sup>2</sup> area. Photographs of the tents are provided in Appendix A.

For reference purposes, Figure 2 illustrates the 225 individual alphanumeric cells that were used for the 903 Pad remediation. Note that the cell coverage and the IHSS boundary coverage do not directly overlap one another. This is due in part to the early creation of the IHSS coverage which did not accurately reflect the field conditions encountered. Once in the field, it was discovered that IHSS 112 had multiple layers of asphalt, some of which extended further east and south compared to the surface asphalt layer. The excavations were extended to match the farthest extending layer of asphalt. The Inner Lip remediation being performed at the 903 Lip Area (IHSS 155) in accordance with BZSAP Addendum #BZ-04-01 includes any necessary soil excavation around the boundary of the 903 Pad (DOE 2003b). Soil excavations that border the 903 Pad were completed up to the 903 Pad excavation boundaries as part of BZSAP Addendum #BZ-04-01 (DOE 2003b), thus ensuring that no portion of the area around the pad goes unaddressed.

The IHSS 112 boundary will be amended to reflect the true extent of the remediation and coincide with the IHSS 155 remediation project. This boundary change will be documented in the FY05 HRR update.


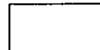
The 903 Pad work consisted of the following steps:

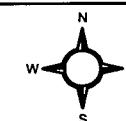
1. The asphalt (approximately 6 inches thick) was removed.
2. The gravel base and a minimum of 1 ft of native soil were excavated.
3. A composite confirmation sample was collected from the bottom of the excavation cell and analyzed at an on-site laboratory.
4. If the result was less than 50 picocuries per gram (pCi/g) between 0 and 3 ft in depth, the cell was backfilled with imported, clean soil.
5. If the result was greater than 50 pCi/g between 0 and 3 ft in depth, additional soil was excavated from the entire excavation cell, and another confirmation sample was collected and analyzed. In many instances, the excavations extend beyond 3 ft in depth.
6. If plutonium-239/240 activities were greater than 1 nanocurie per gram (nCi/g) between 3 and 6 ft in depth, additional soil was excavated and another confirmation sample was collected. There were no plutonium-239/240 activities greater than 1 nCi/g.

When remediation was complete, the excavation was then backfilled with imported, clean soil.

**Figure 2**  
**IHSS 112 Cell**  
**Location Reference**

**KEY**

-  903 Pad grid cells
-  IHSS 112



40 0 40 Feet

Scale = 1: 525

State Plane Coordinate Projection  
Colorado Central Zone  
Datum: NAD 27

U.S. Department of Energy  
Rocky Flats Environmental Technology Site

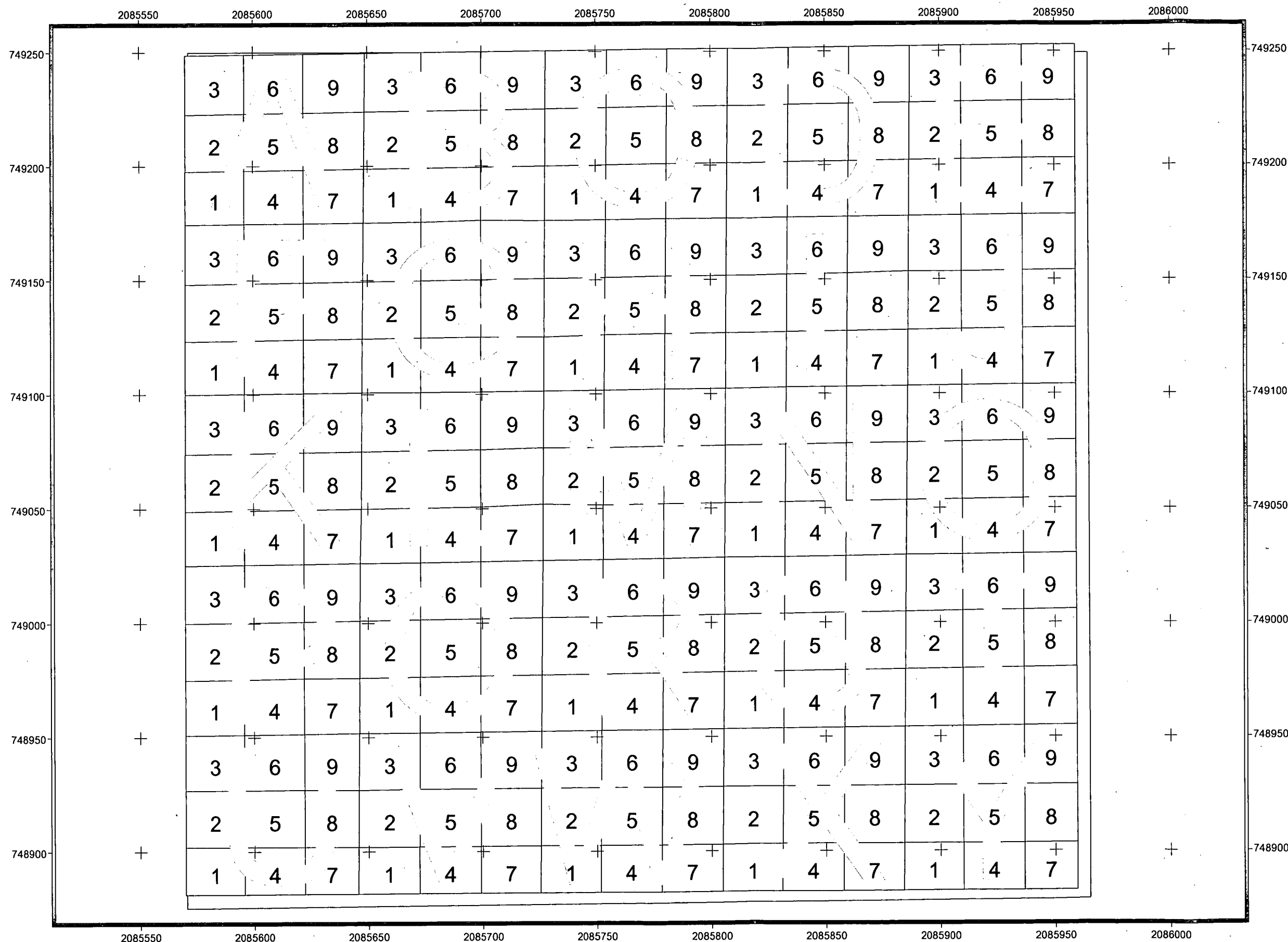
Prepared by: Date: 6.30.04

**RADMS**

Prepared for:



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#### 4.0 CONFIRMATION SAMPLING

Confirmation sampling was conducted throughout the removal activity in accordance with ER RSOP Notification #02-09 (DOE 2002a) and through the consultative process. At least one confirmation sample was collected in each of the 225 grid cells covering the footprint of the 903 Pad. The grid cells were identified using an alpha and numeric naming convention. The 225 grid cells were divided into alpha-cell blocks based on an alphabetical designation (A through Y). An alpha-cell block is defined by the nine individual cells that make up a letter block. Each grid cell's alpha designation is followed by a numeric designation (1 through 9), which completes the naming convention. For example, grid cells A1 through A9 make up alpha-cell block A (Figure 2).

Samples were collected according to ER RSOP Notification #02-09 (DOE 2002a). Two types of confirmation sample collection methods were used during the project as determined through the consultative process (see Regulatory Contact Record [RCR] dated June 11, 2003, in Appendix B). They are as follows:

- November 14, 2002-June 2003: One grab sample was collected in each cell. Accompanying the individual cell grab sample was one random sample (one per alpha-cell block) and any biased samples deemed necessary.
- June 2003 – December 5, 2003: One composite sample was collected in each cell. A composite sample consisted of one grab sample in the center of the cell and four other grab samples collected 5 to 10 ft from the center sample as shown in Table 2. The five grab samples were subsequently composited and sent for analysis.

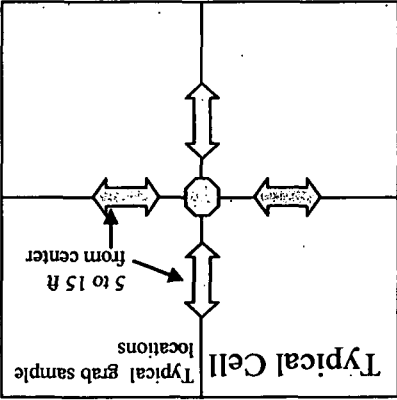
Sampling locations included predetermined locations based on the cell (confirmation), random locations, biased locations, and as-needed locations. The types of confirmation sampling methods are described in Table 3. Confirmation sampling locations are shown on Figure 3. Confirmation sampling results are presented in Table 4 and shown on Figure 4. All confirmation results that were detected are listed. WRW AL exceedances are presented in Table 4 in bold type.

Depths listed in Table 4 and shown on Figure 4 are from the top of native soil. Gamma spectroscopy uranium-234 results were derived from their respective uranium-238 activities using a one-to-one ratio. Gamma spectroscopy plutonium-239/240 activities were derived from their respective americium-241 activities. The following formula was used.

$$\text{Plutonium-239/240 activity} = 8.08 \times (\text{americium-241 activity}) + 3.24 \quad (\text{DOE 2002a})$$

All derived values are in italics.

Table 3  
Types of Confirmation Samples

Type of Sample	Description
Confirmation	<p>Depending on its date, either a grab sample from the center of an alpha numeric cell (pre-June 2003), or</p> <p>A five-point composite grab sample starting in the middle of an alpha numeric cell (post-June 2003) as shown below:</p> 
Random	Grab sample randomly chosen within an alpha-block. This sample supports the noncomposite confirmation grab samples.
Biased	Grab sample biased for a particular reason (for example discolored soil, under drum, and so forth)
As-needed	Additional sample collected as necessary.

**Table 4**  
**IHSS 112 Confirmation Sampling Results Greater Than Background Means Plus Two Standard Deviations**

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
A1	CO39-000	749186.044	2085583.083	3.0	3.2	Americium-241	0.95	0.02	76	pCi/g	confirmation
A1	CO39-000	749186.044	2085583.083	3.0	3.2	Plutonium-239/240	10.92	0.02	50	pCi/g	confirmation
A1	CO39-000	749186.044	2085583.083	3.0	3.2	Uranium-234	4.60	2.64	300	pCi/g	confirmation
A1	CO39-000	749186.044	2085583.083	3.0	3.2	Uranium-238	4.60	1.49	351	pCi/g	confirmation
A1	CO39-009	749193.379	2085582.919	3.0	3.2	Americium-241	0.93	0.02	76	pCi/g	random
A1	CO39-009	749193.379	2085582.919	3.0	3.2	Plutonium-239/240	10.75	0.02	50	pCi/g	random
A1	CO39-009	749193.379	2085582.919	3.0	3.2	Uranium-234	3.10	2.64	300	pCi/g	random
A1	CO39-009	749193.379	2085582.919	3.0	3.2	Uranium-238	3.10	1.49	351	pCi/g	random
A2	CO39-001	749210.196	2085583.135	2.0	2.3	Americium-241	1.60	0.02	76	pCi/g	confirmation
A2	CO39-001	749210.196	2085583.135	2.0	2.3	Plutonium-239/240	16.17	0.02	50	pCi/g	confirmation
A2	CO39-001	749210.196	2085583.135	2.0	2.3	Uranium-234	3.60	2.64	300	pCi/g	confirmation
A2	CO39-001	749210.196	2085583.135	2.0	2.3	Uranium-235	0.20	0.12	8	pCi/g	confirmation
A2	CO39-001	749210.196	2085583.135	2.0	2.3	Uranium-238	3.60	1.49	351	pCi/g	confirmation
A3	CO39-002	749235.715	2085583.199	2.5	2.9	Americium-241	0.69	0.02	76	pCi/g	confirmation
A3	CO39-002	749235.715	2085583.199	2.5	2.9	Plutonium-239/240	8.82	0.02	50	pCi/g	confirmation
A3	CO39-002	749235.715	2085583.199	2.5	2.9	Uranium-234	4.10	2.64	300	pCi/g	confirmation
A3	CO39-002	749235.715	2085583.199	2.5	2.9	Uranium-235	0.24	0.12	8	pCi/g	confirmation
A3	CO39-002	749235.715	2085583.199	2.5	2.9	Uranium-238	4.10	1.49	351	pCi/g	confirmation
A4	CO39-005	749186.385	2085609.009	2.7	3.0	Americium-241	3.90	0.02	76	pCi/g	confirmation
A4	CO39-005	749186.385	2085609.009	2.7	3.0	Plutonium-239/240	34.75	0.02	50	pCi/g	confirmation
A4	CO39-005	749186.385	2085609.009	2.7	3.0	Uranium-234	2.90	2.64	300	pCi/g	confirmation
A4	CO39-005	749186.385	2085609.009	2.7	3.0	Uranium-235	0.34	0.12	8	pCi/g	confirmation
A4	CO39-005	749186.385	2085609.009	2.7	3.0	Uranium-238	2.90	1.49	351	pCi/g	confirmation
A5	CO39-004	749210.594	2085609.043	2.4	2.7	Uranium-234	3.30	2.64	300	pCi/g	confirmation
A5	CO39-004	749210.594	2085609.043	2.4	2.7	Uranium-238	3.30	1.49	351	pCi/g	confirmation
A6	CO39-003	749236.066	2085609.089	2.8	3.0	Uranium-234	5.40	2.64	300	pCi/g	confirmation



Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
A6	CO39-003	749236.066	2085609.089	2.8	3.0	Uranium-238	5.40	1.49	351	pCi/g	confirmation
A7	CO39-006	749186.661	2085635.149	2.7	3.0	Americium-241	4.90	0.02	76	pCi/g	confirmation
A7	CO39-006	749186.661	2085635.149	2.7	3.0	Plutonium-239/240	42.83	0.02	50	pCi/g	confirmation
A7	CO39-026	749195.16	2085626.9	2.7	3.0	Americium-241	2.70	0.02	76	pCi/g	biased
A7	CO39-026	749195.16	2085626.9	2.7	3.0	Plutonium-239/240	25.06	0.02	50	pCi/g	biased
A7	CO39-026	749195.16	2085626.9	2.7	3.0	Uranium-234	4.60	2.64	300	pCi/g	biased
A7	CO39-026	749195.16	2085626.9	2.7	3.0	Uranium-235	0.26	0.12	8	pCi/g	biased
A7	CO39-026	749195.16	2085626.9	2.7	3.0	Uranium-238	4.60	1.49	351	pCi/g	biased
A8	CO39-007	749210.922	2085635.285	3.5	3.8	Americium-241	3.70	0.02	76	pCi/g	confirmation
A8	CO39-007	749210.922	2085635.285	3.5	3.8	Plutonium-239/240	33.14	0.02	50	pCi/g	confirmation
A8	CO39-007	749210.922	2085635.285	3.5	3.8	Uranium-234	5.40	2.64	300	pCi/g	confirmation
A8	CO39-007	749210.922	2085635.285	3.5	3.8	Uranium-235	0.14	0.12	8	pCi/g	confirmation
A8	CO39-007	749210.922	2085635.285	3.5	3.8	Uranium-238	5.40	1.49	351	pCi/g	confirmation
A9	CO39-008	749236.343	2085635.44	3.3	3.5	Uranium-234	5.00	2.64	300	pCi/g	confirmation
A9	CO39-008	749236.343	2085635.44	3.3	3.5	Uranium-235	0.22	0.12	8	pCi/g	confirmation
A9	CO39-008	749236.343	2085635.44	3.3	3.5	Uranium-238	5.00	1.49	351	pCi/g	confirmation
B1	CO39-012	749187.073	2085660.906	2.7	3.0	Uranium-234	2.80	2.64	300	pCi/g	confirmation
B1	CO39-012	749187.073	2085660.906	2.7	3.0	Uranium-235	0.34	0.12	8	pCi/g	confirmation
B1	CO39-012	749187.073	2085660.906	2.7	3.0	Uranium-238	2.80	1.49	351	pCi/g	confirmation
B2	CO39-013	749211.402	2085661.095	3.0	3.3	Americium-241	5.10	0.02	76	pCi/g	confirmation
B2	CO39-013	749211.402	2085661.095	3.0	3.3	Plutonium-239/240	44.45	0.02	50	pCi/g	confirmation
B2	CO39-013	749211.402	2085661.095	3.0	3.3	Uranium-234	3.40	2.64	300	pCi/g	confirmation
B2	CO39-013	749211.402	2085661.095	3.0	3.3	Uranium-238	3.40	1.49	351	pCi/g	confirmation
B2	CO39-025	749214.235	2085660.818	3.0	3.2	Americium-241	0.90	0.02	76	pCi/g	random
B2	CO39-025	749214.235	2085660.818	3.0	3.2	Plutonium-239/240	10.51	0.02	50	pCi/g	random
B2	CO39-025	749214.235	2085660.818	3.0	3.2	Uranium-234	2.00	2.64	300	pCi/g	random
B2	CO39-025	749214.235	2085660.818	3.0	3.2	Uranium-235	0.28	0.12	8	pCi/g	random
B2	CO39-025	749214.235	2085660.818	3.0	3.2	Uranium-238	2.00	1.49	351	pCi/g	random
B2	CO39-027	749209.902	2085661.1	3.0	3.2	Uranium-234	2.20	2.64	300	pCi/g	additional

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
B2	CO39-027	749209.902	2085661.1	3.0	3.2	Uranium-235	0.21	0.12	8	pCi/g	additional
B2	CO39-027	749209.902	2085661.1	3.0	3.2	Uranium-238	2.20	1.49	351	pCi/g	additional
B3	CO39-018	749236.78	2085661.302	2.5	3.0	Uranium-234	2.70	2.64	300	pCi/g	confirmation
B3	CO39-018	749236.78	2085661.302	2.5	3.0	Uranium-238	2.70	1.49	351	pCi/g	confirmation
B4	CO39-011	749187.383	2085686.556	4.6	4.9	Americium-241	1.61	0.02	76	pCi/g	confirmation
B4	CO39-011	749187.383	2085686.556	4.6	4.9	Plutonium-239/240	16.26	0.02	50	pCi/g	confirmation
B4	CO39-011	749187.383	2085686.556	4.6	4.9	Uranium-234	3.37	2.64	300	pCi/g	confirmation
B4	CO39-011	749187.383	2085686.556	4.6	4.9	Uranium-235	0.23	0.12	8	pCi/g	confirmation
B4	CO39-011	749187.383	2085686.556	4.6	4.9	Uranium-238	3.37	1.49	351	pCi/g	confirmation
B5	CO39-014	749211.764	2085686.659	3.5	3.8	Uranium-234	2.10	2.64	300	pCi/g	confirmation
B5	CO39-014	749211.764	2085686.659	3.5	3.8	Uranium-235	0.21	0.12	8	pCi/g	confirmation
B5	CO39-014	749211.764	2085686.659	3.5	3.8	Uranium-238	2.10	1.49	351	pCi/g	confirmation
B6	CO39-017	749237.093	2085686.777	2.5	2.8	Americium-241	0.71	0.02	76	pCi/g	confirmation
B6	CO39-017	749237.093	2085686.777	2.5	2.8	Plutonium-239/240	8.94	0.02	50	pCi/g	confirmation
B6	CO39-017	749237.093	2085686.777	2.5	2.8	Uranium-234	1.90	2.64	300	pCi/g	confirmation
B6	CO39-017	749237.093	2085686.777	2.5	2.8	Uranium-235	0.29	0.12	8	pCi/g	confirmation
B6	CO39-017	749237.093	2085686.777	2.5	2.8	Uranium-238	1.90	1.49	351	pCi/g	confirmation
B7	CO39-010	749187.691	2085713.65	2.3	2.6	Americium-241	0.90	0.02	76	pCi/g	confirmation
B7	CO39-010	749187.691	2085713.65	2.3	2.6	Plutonium-239/240	10.51	0.02	50	pCi/g	confirmation
B7	CO39-010	749187.691	2085713.65	2.3	2.6	Uranium-234	5.00	2.64	300	pCi/g	confirmation
B7	CO39-010	749187.691	2085713.65	2.3	2.6	Uranium-235	0.20	0.12	8	pCi/g	confirmation
B7	CO39-010	749187.691	2085713.65	2.3	2.6	Uranium-238	5.00	1.49	351	pCi/g	confirmation
B8	CO39-015	749212.129	2085713.803	5.3	5.6	Americium-241	7.57	0.02	76	pCi/g	confirmation
B8	CO39-015	749212.129	2085713.803	5.3	5.6	Plutonium-239/240	50.10	0.02	50	pCi/g	confirmation
B8	CO39-015	749212.129	2085713.803	5.3	5.6	Uranium-238	0.61	1.49	351	pCi/g	confirmation
B9	CO39-016	749237.406	2085713.976	3.6	3.9	Uranium-234	4.65	2.64	300	pCi/g	confirmation
B9	CO39-016	749237.406	2085713.976	3.6	3.9	Uranium-235	0.21	0.12	8	pCi/g	confirmation
B9	CO39-016	749237.406	2085713.976	3.6	3.9	Uranium-238	4.65	1.49	351	pCi/g	confirmation
C1	CP39-002	749188.063	2085741.016	3.2	3.4	Americium-241	5.90	0.02	76	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 – 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
C1	CP39-002	749188.063	2085741.016	3.2	3.4	Plutonium-239/240	50.87	0.02	50	pCi/g	confirmation
C1	CP39-002	749188.063	2085741.016	3.2	3.4	Uranium-234	1.91	2.64	300	pCi/g	confirmation
C1	CP39-002	749188.063	2085741.016	3.2	3.4	Uranium-235	0.20	0.12	8	pCi/g	confirmation
C1	CP39-002	749188.063	2085741.016	3.2	3.4	Uranium-238	1.91	1.49	351	pCi/g	confirmation
C2	CP39-003	749212.565	2085741.256	2.2	2.4	Americium-241	4.15	0.02	76	pCi/g	confirmation
C2	CP39-003	749212.565	2085741.256	2.2	2.4	Plutonium-239/240	36.80	0.02	50	pCi/g	confirmation
C2	CP39-003	749212.565	2085741.256	2.2	2.4	Uranium-234	4.49	2.64	300	pCi/g	confirmation
C2	CP39-003	749212.565	2085741.256	2.2	2.4	Uranium-235	0.20	0.12	8	pCi/g	confirmation
C2	CP39-003	749212.565	2085741.256	2.2	2.4	Uranium-238	4.49	1.49	351	pCi/g	confirmation
C3	CP39-008	749237.793	2085741.517	2.5	2.7	Americium-241	4.33	0.02	76	pCi/g	confirmation
C3	CP39-008	749237.793	2085741.517	2.5	2.7	Plutonium-239/240	38.23	0.02	50	pCi/g	confirmation
C3	CP39-008	749237.793	2085741.517	2.5	2.7	Uranium-234	4.28	2.64	300	pCi/g	confirmation
C3	CP39-008	749237.793	2085741.517	2.5	2.7	Uranium-235	0.25	0.12	8	pCi/g	confirmation
C3	CP39-008	749237.793	2085741.517	2.5	2.7	Uranium-238	4.28	1.49	351	pCi/g	confirmation
C4	CP39-001	749188.417	2085767.533	2.5	2.8	Uranium-234	2.37	2.64	300	pCi/g	confirmation
C4	CP39-001	749188.417	2085767.533	2.5	2.8	Uranium-238	2.37	1.49	351	pCi/g	confirmation
C4	CP39-032	749184.458	2085772.511	2.87	3.17	Americium-241	0.90	0.02	76	pCi/g	random
C4	CP39-032	749184.458	2085772.511	2.87	3.17	Plutonium-239/240	10.51	0.02	50	pCi/g	random
C4	CP39-032	749184.458	2085772.511	2.87	3.17	Uranium-234	3.80	2.64	300	pCi/g	random
C4	CP39-032	749184.458	2085772.511	2.87	3.17	Uranium-238	3.80	1.49	351	pCi/g	random
C5	CP39-004	749212.979	2085767.781	3.0	3.3	Uranium-234	3.44	2.64	300	pCi/g	confirmation
C5	CP39-004	749212.979	2085767.781	3.0	3.3	Uranium-235	0.19	0.12	8	pCi/g	confirmation
C5	CP39-004	749212.979	2085767.781	3.0	3.3	Uranium-238	3.44	1.49	351	pCi/g	confirmation
C6	CP39-007	749238.158	2085768.047	3.5	4.0	Americium-241	0.77	0.02	76	pCi/g	confirmation
C6	CP39-007	749238.158	2085768.047	3.5	4.0	Plutonium-239/240	9.49	0.02	50	pCi/g	confirmation
C6	CP39-007	749238.158	2085768.047	3.5	4.0	Uranium-234	2.38	2.64	300	pCi/g	confirmation
C6	CP39-007	749238.158	2085768.047	3.5	4.0	Uranium-235	0.19	0.12	8	pCi/g	confirmation
C6	CP39-007	749238.158	2085768.047	3.5	4.0	Uranium-238	2.38	1.49	351	pCi/g	confirmation
C7	CP39-000	749188.753	2085793.928	2.2	2.5	Americium-241	1.38	0.02	76	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
C7	CP39-000	749188.753	2085793.928	2.2	2.5	Plutonium-239/240	14.39	0.02	50	pCi/g	confirmation
C7	CP39-000	749188.753	2085793.928	2.2	2.5	Uranium-234	3.06	2.64	300	pCi/g	confirmation
C7	CP39-000	749188.753	2085793.928	2.2	2.5	Uranium-235	0.29	0.12	8	pCi/g	confirmation
C7	CP39-000	749188.753	2085793.928	2.2	2.5	Uranium-238	3.06	1.49	351	pCi/g	confirmation
C8	CP39-005	749213.374	2085794.156	3.3	3.6	Uranium-235	0.22	0.12	8	pCi/g	confirmation
C8	CP39-036	749219.374	2085788.156	3.0	3.3	Americium-241	0.60	0.02	76	pCi/g	biased
C8	CP39-036	749219.374	2085788.156	3.0	3.3	Plutonium-239/240	8.09	0.02	50	pCi/g	biased
C8	CP39-036	749219.374	2085788.156	3.0	3.3	Uranium-234	2.78	2.64	300	pCi/g	biased
C8	CP39-036	749219.374	2085788.156	3.0	3.3	Uranium-235	0.21	0.12	8	pCi/g	biased
C8	CP39-036	749219.374	2085788.156	3.0	3.3	Uranium-238	2.78	1.49	351	pCi/g	biased
C9	CP39-006	749238.503	2085794.402	2.62	3.12	Americium-241	0.95	0.02	76	pCi/g	confirmation
C9	CP39-006	749238.503	2085794.402	2.62	3.12	Plutonium-239/240	2.70	0.02	50	pCi/g	confirmation
C9	CP39-006	749238.503	2085794.402	2.62	3.12	Uranium-238	0.29	1.49	351	pCi/g	confirmation
D1	CP39-011	749189.082	2085820.5	2.35	2.65	Americium-241	5.44	0.02	76	pCi/g	confirmation
D1	CP39-011	749189.082	2085820.5	2.35	2.65	Plutonium-239/240	47.20	0.02	50	pCi/g	confirmation
D1	CP39-011	749189.082	2085820.5	2.35	2.65	Uranium-234	3.77	2.64	300	pCi/g	confirmation
D1	CP39-011	749189.082	2085820.5	2.35	2.65	Uranium-235	0.22	0.12	8	pCi/g	confirmation
D1	CP39-011	749189.082	2085820.5	2.35	2.65	Uranium-238	3.77	1.49	351	pCi/g	confirmation
D2	CP39-012	749213.76	2085820.741	2.9	3.2	Uranium-234	3.38	2.64	300	pCi/g	confirmation
D2	CP39-012	749213.76	2085820.741	2.9	3.2	Uranium-235	0.18	0.12	8	pCi/g	confirmation
D2	CP39-012	749213.76	2085820.741	2.9	3.2	Uranium-238	3.38	1.49	351	pCi/g	confirmation
D2	CP39-037	749213.76	2085822.741	2.85	3.15	Uranium-234	2.33	2.64	300	pCi/g	biased
D2	CP39-037	749213.76	2085822.741	2.85	3.15	Uranium-238	2.33	1.49	351	pCi/g	biased
D3	CP39-017	749238.841	2085821	3.46	3.96	Americium-241	1.12	0.02	76	pCi/g	confirmation
D3	CP39-017	749238.841	2085821	3.46	3.96	Plutonium-239/240	12.28	0.02	50	pCi/g	confirmation
D3	CP39-017	749238.841	2085821	3.46	3.96	Uranium-234	4.64	2.64	300	pCi/g	confirmation
D3	CP39-017	749238.841	2085821	3.46	3.96	Uranium-235	0.16	0.12	8	pCi/g	confirmation
D3	CP39-017	749238.841	2085821	3.46	3.96	Uranium-238	4.64	1.49	351	pCi/g	confirmation
D4	CP39-010	749189.437	2085847.02	2.66	2.96	Plutonium-239/240	0.08	0.02	50	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 – 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
D4	CP39-010	749189.437	2085847.02	2.66	2.96	Uranium-234	0.72	2.64	300	pCi/g	confirmation
D4	CP39-010	749189.437	2085847.02	2.66	2.96	Uranium-238	0.55	1.49	351	pCi/g	confirmation
D5	CP39-013	749214.175	2085847.269	2.45	2.85	Uranium-234	4.25	2.64	300	pCi/g	confirmation
D5	CP39-013	749214.175	2085847.269	2.45	2.85	Uranium-235	0.21	0.12	8	pCi/g	confirmation
D5	CP39-013	749214.175	2085847.269	2.45	2.85	Uranium-238	4.25	1.49	351	pCi/g	confirmation
D6	CP39-016	749239.206	2085847.534	2.45	2.85	Americium-241	4.22	0.02	76	pCi/g	confirmation
D6	CP39-016	749239.206	2085847.534	2.45	2.85	Plutonium-239/240	37.33	0.02	50	pCi/g	confirmation
D6	CP39-016	749239.206	2085847.534	2.45	2.85	Uranium-234	3.39	2.64	300	pCi/g	confirmation
D6	CP39-016	749239.206	2085847.534	2.45	2.85	Uranium-238	3.39	1.49	351	pCi/g	confirmation
D7	CP39-009	749189.767	2085873.469	2.42	2.72	Uranium-234	3.95	2.64	300	pCi/g	confirmation
D7	CP39-009	749189.767	2085873.469	2.42	2.72	Uranium-235	0.17	0.12	8	pCi/g	confirmation
D7	CP39-009	749189.767	2085873.469	2.42	2.72	Uranium-238	3.95	1.49	351	pCi/g	confirmation
D8	CP39-014	749214.563	2085873.715	3.49	3.52	Uranium-234	3.69	2.64	300	pCi/g	confirmation
D8	CP39-014	749214.563	2085873.715	3.49	3.52	Uranium-235	0.14	0.12	8	pCi/g	confirmation
D8	CP39-014	749214.563	2085873.715	3.49	3.52	Uranium-238	3.69	1.49	351	pCi/g	confirmation
D9	CP39-015	749239.545	2085873.976	3.5	3.8	Americium-241	1.14	0.02	76	pCi/g	confirmation
D9	CP39-015	749239.545	2085873.976	3.5	3.8	Plutonium-239/240	12.45	0.02	50	pCi/g	confirmation
D9	CP39-015	749239.545	2085873.976	3.5	3.8	Uranium-234	4.96	2.64	300	pCi/g	confirmation
D9	CP39-015	749239.545	2085873.976	3.5	3.8	Uranium-235	0.18	0.12	8	pCi/g	confirmation
D9	CP39-015	749239.545	2085873.976	3.5	3.8	Uranium-238	4.96	1.49	351	pCi/g	confirmation
D9	CP39-033	749229.448	2085862.508	3.2	3.5	Uranium-234	3.80	2.64	300	pCi/g	random
D9	CP39-033	749229.448	2085862.508	3.2	3.5	Uranium-235	0.16	0.12	8	pCi/g	random
D9	CP39-033	749229.448	2085862.508	3.2	3.5	Uranium-238	3.80	1.49	351	pCi/g	random
E1	CP39-021	749190.158	2085898.147	2.46	2.49	Americium-241	0.44	0.02	76	pCi/g	confirmation
E1	CP39-021	749190.158	2085898.147	2.46	2.49	Plutonium-239/240	2.07	0.02	50	pCi/g	confirmation
E1	CP39-021	749190.158	2085898.147	2.46	2.49	Uranium-234	0.59	2.64	300	pCi/g	confirmation
E2	CP39-022	749215.012	2085898.261	2.86	2.94	Uranium-234	3.39	2.64	300	pCi/g	confirmation
E2	CP39-022	749215.012	2085898.261	2.86	2.94	Uranium-235	0.19	0.12	8	pCi/g	confirmation
E2	CP39-022	749215.012	2085898.261	2.86	2.94	Uranium-238	3.39	1.49	351	pCi/g	confirmation

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Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
E3	CP39-023	749239.944	2085898.386	2.96	3.26	Americium-241	5.25	0.02	76	pCi/g	confirmation
E3	CP39-023	749239.944	2085898.386	2.96	3.26	Plutonium-239/240	45.67	0.02	50	pCi/g	confirmation
E3	CP39-023	749239.944	2085898.386	2.96	3.26	Uranium-234	4.00	2.64	300	pCi/g	confirmation
E3	CP39-023	749239.944	2085898.386	2.96	3.26	Uranium-235	0.24	0.12	8	pCi/g	confirmation
E3	CP39-023	749239.944	2085898.386	2.96	3.26	Uranium-238	4.00	1.49	351	pCi/g	confirmation
E4	CP39-020	749190.403	2085922.806	2.26	2.56	Uranium-234	4.80	2.64	300	pCi/g	confirmation
E4	CP39-020	749190.403	2085922.806	2.26	2.56	Uranium-235	0.17	0.12	8	pCi/g	confirmation
E4	CP39-020	749190.403	2085922.806	2.26	2.56	Uranium-238	4.80	1.49	351	pCi/g	confirmation
E4	CP39-038	749184.4	2085928.806	2.37	2.67	Uranium-234	2.79	2.64	300	pCi/g	biased
E4	CP39-038	749184.4	2085928.806	2.37	2.67	Uranium-238	2.79	1.49	351	pCi/g	biased
E5	CP39-019	749215.305	2085922.792	3.12	3.42	Uranium-234	4.32	2.64	300	pCi/g	confirmation
E5	CP39-019	749215.305	2085922.792	3.12	3.42	Uranium-235	0.22	0.12	8	pCi/g	confirmation
E5	CP39-019	749215.305	2085922.792	3.12	3.42	Uranium-238	4.32	1.49	351	pCi/g	confirmation
E6	CP39-018	749240.192	2085922.793	2.57	2.87	Uranium-234	4.01	2.64	300	pCi/g	confirmation
E6	CP39-018	749240.192	2085922.793	2.57	2.87	Uranium-235	0.22	0.12	8	pCi/g	confirmation
E6	CP39-018	749240.192	2085922.793	2.57	2.87	Uranium-238	4.01	1.49	351	pCi/g	confirmation
E7	CQ39-000	749190.721	2085947.545	1.93	2.23	Uranium-234	4.24	2.64	300	pCi/g	confirmation
E7	CQ39-000	749190.721	2085947.545	1.93	2.23	Uranium-235	0.25	0.12	8	pCi/g	confirmation
E7	CQ39-000	749190.721	2085947.545	1.93	2.23	Uranium-238	4.24	1.49	351	pCi/g	confirmation
E7	CQ39-004	749192.521	2085960.503	2.1	2.4	Uranium-234	4.07	2.64	300	pCi/g	random
E7	CQ39-004	749192.521	2085960.503	2.1	2.4	Uranium-235	0.24	0.12	8	pCi/g	random
E7	CQ39-004	749192.521	2085960.503	2.1	2.4	Uranium-238	4.07	1.49	351	pCi/g	random
E8	CQ39-001	749215.677	2085947.525	2.06	2.36	Americium-241	1.10	0.02	76	pCi/g	confirmation
E8	CQ39-001	749215.677	2085947.525	2.06	2.36	Plutonium-239/240	12.14	0.02	50	pCi/g	confirmation
E8	CQ39-001	749215.677	2085947.525	2.06	2.36	Uranium-234	3.03	2.64	300	pCi/g	confirmation
E8	CQ39-001	749215.677	2085947.525	2.06	2.36	Uranium-235	0.17	0.12	8	pCi/g	confirmation
E8	CQ39-001	749215.677	2085947.525	2.06	2.36	Uranium-238	3.03	1.49	351	pCi/g	confirmation
E9	CQ39-002	749240.518	2085947.517	2.07	2.37	Uranium-234	4.16	2.64	300	pCi/g	confirmation
E9	CQ39-002	749240.518	2085947.517	2.07	2.37	Uranium-235	0.21	0.12	8	pCi/g	confirmation

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Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
E9	CQ39-002	749240.518	2085947.517	2.07	2.37	Uranium-238	4.16	1.49	351	pCi/g	confirmation
F2	CO38-001	749135.825	2085583.043	2.44	2.64	Americium-241	2.01	0.02	76	pCi/g	confirmation
F2	CO38-001	749135.825	2085583.043	2.44	2.64	Plutonium-239/240	19.46	0.02	50	pCi/g	confirmation
F2	CO38-001	749135.825	2085583.043	2.44	2.64	Uranium-234	1.80	2.64	300	pCi/g	confirmation
F2	CO38-001	749135.825	2085583.043	2.44	2.64	Uranium-238	1.80	1.49	351	pCi/g	confirmation
F3	CO38-056	749161.346	2085583.108	2.8	3.1	Americium-241	0.33	0.02	76	pCi/g	confirmation
F3	CO38-056	749161.346	2085583.108	2.8	3.1	Plutonium-239/240	5.91	0.02	50	pCi/g	confirmation
F3	CO38-056	749161.346	2085583.108	2.8	3.1	Uranium-234	1.57	2.64	300	pCi/g	confirmation
F3	CO38-056	749161.346	2085583.108	2.8	3.1	Uranium-235	0.11	0.12	8	pCi/g	confirmation
F3	CO38-056	749161.346	2085583.108	2.8	3.1	Uranium-238	1.57	1.49	351	pCi/g	confirmation
F4	CO38-057	749112.075	2085609.036	4.64	4.94	Americium-241	21.60	0.02	76	pCi/g	confirmation
F4	CO38-057	749112.075	2085609.036	4.64	4.94	Plutonium-239/240	58.20	0.02	50	pCi/g	confirmation
F4	CO38-057	749112.075	2085609.036	4.64	4.94	Uranium-234	0.48	2.64	300	pCi/g	confirmation
F4	CO38-057	749112.075	2085609.036	4.64	4.94	Uranium-235	0.18	0.12	8	pCi/g	confirmation
F4	CO38-057	749112.075	2085609.036	4.64	4.94	Uranium-238	0.55	1.49	351	pCi/g	confirmation
F5	CO38-058	749136.223	2085609.131	2.2	2.5	Uranium-234	1.12	2.64	300	pCi/g	confirmation
F5	CO38-058	749136.223	2085609.131	2.2	2.5	Uranium-235	0.18	0.12	8	pCi/g	confirmation
F5	CO38-058	749136.223	2085609.131	2.2	2.5	Uranium-238	1.12	1.49	351	pCi/g	confirmation
F6	CO39-019	749161.637	2085609.113	3.12	3.42	Americium-241	4.37	0.02	76	pCi/g	confirmation
F6	CO39-019	749161.637	2085609.113	3.12	3.42	Plutonium-239/240	38.54	0.02	50	pCi/g	confirmation
F6	F6 UNDER DRUM	749159.526	2085601.184	6.2	6.7	Americium-241	18.17	0.02	76	pCi/g	additional
F6	F6 UNDER DRUM	749159.526	2085601.184	6.2	6.7	Plutonium-239/240	150.05	0.02	50	pCi/g	additional
F6	F6 UNDER DRUM	749159.526	2085601.184	6.2	6.7	Uranium-234	1.34	2.64	300	pCi/g	additional
F6	F6 UNDER DRUM	749159.526	2085601.184	6.2	6.7	Uranium-235	0.11	0.12	8	pCi/g	additional
F6	F6 UNDER DRUM	749159.526	2085601.184	6.2	6.7	Uranium-238	1.34	1.49	351	pCi/g	additional
F7	CO38-059	749112.287	2085634.803	2.14	2.34	Americium-241	1.03	0.02	76	pCi/g	confirmation
F7	CO38-059	749112.287	2085634.803	2.14	2.34	Plutonium-239/240	11.56	0.02	50	pCi/g	confirmation

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Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
F7	CO38-059	749112.287	2085634.803	2.14	2.34	Uranium-234	2.84	2.64	300	pCi/g	confirmation
F7	CO38-059	749112.287	2085634.803	2.14	2.34	Uranium-238	2.84	1.49	351	pCi/g	confirmation
F8	CO38-005	749136.547	2085634.938	3.21	3.41	Americium-241	3.28	0.02	76	pCi/g	confirmation
F8	CO38-005	749136.547	2085634.938	3.21	3.41	Plutonium-239/240	29.75	0.02	50	pCi/g	confirmation
F8	CO38-005	749136.547	2085634.938	3.21	3.41	Uranium-234	1.64	2.64	300	pCi/g	confirmation
F8	CO38-005	749136.547	2085634.938	3.21	3.41	Uranium-238	1.64	1.49	351	pCi/g	confirmation
F9	CO39-020	749161.968	2085635.09	2.74	3.04	Americium-241	5.09	0.02	76	pCi/g	confirmation
F9	CO39-020	749161.968	2085635.09	2.74	3.04	Plutonium-239/240	44.37	0.02	50	pCi/g	confirmation
G1	CO38-060	749112.657	2085660.347	3.16	3.36	Americium-241	1.08	0.02	76	pCi/g	confirmation
G1	CO38-060	749112.657	2085660.347	3.16	3.36	Plutonium-239/240	11.97	0.02	50	pCi/g	confirmation
G1	CO38-060	749112.657	2085660.347	3.16	3.36	Uranium-234	1.50	2.64	300	pCi/g	confirmation
G1	CO38-060	749112.657	2085660.347	3.16	3.36	Uranium-235	0.14	0.12	8	pCi/g	confirmation
G1	CO38-060	749112.657	2085660.347	3.16	3.36	Uranium-238	1.50	1.49	351	pCi/g	confirmation
G2	CO38-061	749137.024	2085660.58	5.08	5.28	Americium-241	24.91	0.02	76	pCi/g	confirmation
G2	CO38-061	749137.024	2085660.58	5.08	5.28	Plutonium-239/240	204.51	0.02	50	pCi/g	confirmation
G2	CO38-061	749137.024	2085660.58	5.08	5.28	Uranium-234	1.96	2.64	300	pCi/g	confirmation
G2	CO38-061	749137.024	2085660.58	5.08	5.28	Uranium-235	0.13	0.12	8	pCi/g	confirmation
G2	CO38-061	749137.024	2085660.58	5.08	5.28	Uranium-238	1.96	1.49	351	pCi/g	confirmation
G3	CO39-021	749162.404	2085660.788	6.07	6.37	Americium-241	5.25	0.02	76	pCi/g	confirmation
G3	CO39-021	749162.404	2085660.788	6.07	6.37	Plutonium-239/240	45.62	0.02	50	pCi/g	confirmation
G3	CO39-021	749162.404	2085660.788	6.07	6.37	Uranium-234	1.17	2.64	300	pCi/g	confirmation
G3	CO39-021	749162.404	2085660.788	6.07	6.37	Uranium-235	0.12	0.12	8	pCi/g	confirmation
G3	CO39-021	749162.404	2085660.788	6.07	6.37	Uranium-238	1.17	1.49	351	pCi/g	confirmation
G4	CO38-010	749112.894	2085686.27	3.4	3.5	Americium-241	3.25	0.02	76	pCi/g	confirmation
G4	CO38-010	749112.894	2085686.27	3.4	3.5	Plutonium-239/240	29.46	0.02	50	pCi/g	confirmation
G4	CO38-010	749112.894	2085686.27	3.4	3.5	Uranium-234	0.95	2.64	300	pCi/g	confirmation
G4	CO38-010	749112.894	2085686.27	3.4	3.5	Uranium-238	0.95	1.49	351	pCi/g	confirmation
G5	CO38-062	749137.392	2085686.412	4.68	4.98	Americium-241	2.77	0.02	76	pCi/g	confirmation
G5	CO38-062	749137.392	2085686.412	4.68	4.98	Plutonium-239/240	17.00	0.02	50	pCi/g	confirmation



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Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
G5	CO38-062	749137.392	2085686.412	4.68	4.98	Uranium-238	0.22	1.49	351	pCi/g	confirmation
G7	CO38-011	749113.105	2085713.375	3.28	3.58	Americium-241	0.63	0.02	76	pCi/g	confirmation
G7	CO38-011	749113.105	2085713.375	3.28	3.58	Plutonium-239/240	8.30	0.02	50	pCi/g	confirmation
G7	CO38-011	749113.105	2085713.375	3.28	3.58	Uranium-234	3.58	2.64	300	pCi/g	confirmation
G7	CO38-011	749113.105	2085713.375	3.28	3.58	Uranium-235	0.21	0.12	8	pCi/g	confirmation
G7	CO38-011	749113.105	2085713.375	3.28	3.58	Uranium-238	3.58	1.49	351	pCi/g	confirmation
G8	CO38-012	749137.633	2085713.282	2.9	3.2	Americium-241	1.79	0.02	76	pCi/g	confirmation
G8	CO38-012	749137.633	2085713.282	2.9	3.2	Plutonium-239/240	17.73	0.02	50	pCi/g	confirmation
G8	CO38-012	749137.633	2085713.282	2.9	3.2	Uranium-234	4.67	2.64	300	pCi/g	confirmation
G8	CO38-012	749137.633	2085713.282	2.9	3.2	Uranium-235	0.16	0.12	8	pCi/g	confirmation
G8	CO38-012	749137.633	2085713.282	2.9	3.2	Uranium-238	4.67	1.49	351	pCi/g	confirmation
G9	CO39-023	749163.34	2085713.518	2.92	3.22	Americium-241	5.15	0.02	76	pCi/g	confirmation
G9	CO39-023	749163.34	2085713.518	2.92	3.22	Plutonium-239/240	44.82	0.02	50	pCi/g	confirmation
G9	CO39-023	749163.34	2085713.518	2.92	3.22	Uranium-234	3.52	2.64	300	pCi/g	confirmation
G9	CO39-023	749163.34	2085713.518	2.92	3.22	Uranium-235	0.18	0.12	8	pCi/g	confirmation
G9	CO39-023	749163.34	2085713.518	2.92	3.22	Uranium-238	3.52	1.49	351	pCi/g	confirmation
H1	CP38-003	749113.427	2085740.236	2.84	3.14	Americium-241	1.31	0.02	76	pCi/g	confirmation
H1	CP38-003	749113.427	2085740.236	2.84	3.14	Plutonium-239/240	13.83	0.02	50	pCi/g	confirmation
H1	CP38-003	749113.427	2085740.236	2.84	3.14	Uranium-234	4.33	2.64	300	pCi/g	confirmation
H1	CP38-003	749113.427	2085740.236	2.84	3.14	Uranium-235	0.20	0.12	8	pCi/g	confirmation
H1	CP38-003	749113.427	2085740.236	2.84	3.14	Uranium-238	4.33	1.49	351	pCi/g	confirmation
H2	CP38-002	749138.07	2085740.719	4.73	5.03	Americium-241	2.34	0.02	76	pCi/g	confirmation
H2	CP38-002	749138.07	2085740.719	4.73	5.03	Plutonium-239/240	12.70	0.02	50	pCi/g	confirmation
H2	CP38-002	749138.07	2085740.719	4.73	5.03	Uranium-234	0.76	2.64	300	pCi/g	confirmation
H2	CP38-002	749138.07	2085740.719	4.73	5.03	Uranium-238	0.41	1.49	351	pCi/g	confirmation
H3	CP39-024	749163.599	2085741.047	4.9	5.1	Americium-241	4.56	0.02	76	pCi/g	confirmation
H3	CP39-024	749163.599	2085741.047	4.9	5.1	Plutonium-239/240	40.04	0.02	50	pCi/g	confirmation
H3	CP39-024	749163.599	2085741.047	4.9	5.1	Uranium-234	4.25	2.64	300	pCi/g	confirmation
H3	CP39-024	749163.599	2085741.047	4.9	5.1	Uranium-235	0.24	0.12	8	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
H3	CP39-024	749163.599	2085741.047	4.9	5.1	Uranium-238	4.25	1.49	351	pCi/g	confirmation
H4	CP38-004	749113.937	2085766.87	1.96	2.26	Uranium-234	4.81	2.64	300	pCi/g	confirmation
H4	CP38-004	749113.937	2085766.87	1.96	2.26	Uranium-235	0.23	0.12	8	pCi/g	confirmation
H4	CP38-004	749113.937	2085766.87	1.96	2.26	Uranium-238	4.81	1.49	351	pCi/g	confirmation
H5	CP38-005	749138.6	2085767.097	2.9	3.2	Americium-241	0.91	0.02	76	pCi/g	confirmation
H5	CP38-005	749138.6	2085767.097	2.9	3.2	Plutonium-239/240	10.57	0.02	50	pCi/g	confirmation
H5	CP38-005	749138.6	2085767.097	2.9	3.2	Uranium-234	4.93	2.64	300	pCi/g	confirmation
H5	CP38-005	749138.6	2085767.097	2.9	3.2	Uranium-235	0.26	0.12	8	pCi/g	confirmation
H5	CP38-005	749138.6	2085767.097	2.9	3.2	Uranium-238	4.93	1.49	351	pCi/g	confirmation
H6	CP39-025	749163.78	2085767.364	2.6	2.8	Americium-241	0.49	0.02	76	pCi/g	confirmation
H6	CP39-025	749163.78	2085767.364	2.6	2.8	Plutonium-239/240	7.18	0.02	50	pCi/g	confirmation
H6	CP39-025	749163.78	2085767.364	2.6	2.8	Uranium-234	4.92	2.64	300	pCi/g	confirmation
H6	CP39-025	749163.78	2085767.364	2.6	2.8	Uranium-235	0.22	0.12	8	pCi/g	confirmation
H6	CP39-025	749163.78	2085767.364	2.6	2.8	Uranium-238	4.92	1.49	351	pCi/g	confirmation
H7	CP38-007	749114.283	2085793.293	2.51	2.81	Americium-241	0.46	0.02	76	pCi/g	confirmation
H7	CP38-007	749114.283	2085793.293	2.51	2.81	Plutonium-239/240	7.00	0.02	50	pCi/g	confirmation
H7	CP38-007	749114.283	2085793.293	2.51	2.81	Uranium-234	4.11	2.64	300	pCi/g	confirmation
H7	CP38-007	749114.283	2085793.293	2.51	2.81	Uranium-235	0.21	0.12	8	pCi/g	confirmation
H7	CP38-007	749114.283	2085793.293	2.51	2.81	Uranium-238	4.11	1.49	351	pCi/g	confirmation
H8	CP38-006	749138.995	2085793.533	3.08	3.4	Americium-241	0.70	0.02	76	pCi/g	confirmation
H8	CP38-006	749138.995	2085793.533	3.08	3.4	Plutonium-239/240	8.88	0.02	50	pCi/g	confirmation
H8	CP38-006	749138.995	2085793.533	3.08	3.4	Uranium-234	4.00	2.64	300	pCi/g	confirmation
H8	CP38-006	749138.995	2085793.533	3.08	3.4	Uranium-235	0.19	0.12	8	pCi/g	confirmation
H8	CP38-006	749138.995	2085793.533	3.08	3.4	Uranium-238	4.00	1.49	351	pCi/g	confirmation
H9	CP39-026	749164.126	2085793.779	2.21	2.51	Americium-241	2.52	0.02	76	pCi/g	confirmation
H9	CP39-026	749164.126	2085793.779	2.21	2.51	Plutonium-239/240	23.63	0.02	50	pCi/g	confirmation
H9	CP39-026	749164.126	2085793.779	2.21	2.51	Uranium-234	4.70	2.64	300	pCi/g	confirmation
H9	CP39-026	749164.126	2085793.779	2.21	2.51	Uranium-235	0.27	0.12	8	pCi/g	confirmation
H9	CP39-026	749164.126	2085793.779	2.21	2.51	Uranium-238	4.70	1.49	351	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
11	CP38-008	749114.654	2085819.897	3.16	3.46	Uranium-234	4.40	2.64	300	pCi/g	confirmation
11	CP38-008	749114.654	2085819.897	3.16	3.46	Uranium-235	0.20	0.12	8	pCi/g	confirmation
11	CP38-008	749114.654	2085819.897	3.16	3.46	Uranium-238	4.40	1.49	351	pCi/g	confirmation
12	CP38-009	749139.381	2085820.081	2.57	2.87	Uranium-234	3.64	2.64	300	pCi/g	confirmation
12	CP38-009	749139.381	2085820.081	2.57	2.87	Uranium-235	0.19	0.12	8	pCi/g	confirmation
12	CP38-009	749139.381	2085820.081	2.57	2.87	Uranium-238	3.64	1.49	351	pCi/g	confirmation
12	CP38-075	749136.381	2085826.081	2.83	3.13	Uranium-234	2.69	2.64	300	pCi/g	biased
12	CP38-075	749136.381	2085826.081	2.83	3.13	Uranium-238	2.69	1.49	351	pCi/g	biased
13	CP39-027	749164.463	2085820.34	2.84	3.14	Americium-241	5.00	0.02	76	pCi/g	confirmation
13	CP39-027	749164.463	2085820.34	2.84	3.14	Plutonium-239/240	43.64	0.02	50	pCi/g	confirmation
13	CP39-027	749164.463	2085820.34	2.84	3.14	Uranium-234	4.34	2.64	300	pCi/g	confirmation
13	CP39-027	749164.463	2085820.34	2.84	3.14	Uranium-235	0.22	0.12	8	pCi/g	confirmation
13	CP39-027	749164.463	2085820.34	2.84	3.14	Uranium-238	4.34	1.49	351	pCi/g	confirmation
14	CP38-011	749115.059	2085846.336	3.18	3.38	Americium-241	1.40	0.02	76	pCi/g	confirmation
14	CP38-011	749115.059	2085846.336	3.18	3.38	Plutonium-239/240	14.52	0.02	50	pCi/g	confirmation
14	CP38-011	749115.059	2085846.336	3.18	3.38	Uranium-234	4.19	2.64	300	pCi/g	confirmation
14	CP38-011	749115.059	2085846.336	3.18	3.38	Uranium-235	0.20	0.12	8	pCi/g	confirmation
14	CP38-011	749115.059	2085846.336	3.18	3.38	Uranium-238	4.19	1.49	351	pCi/g	confirmation
15	CP38-010	749139.795	2085846.585	3.6	3.9	Americium-241	4.83	0.02	76	pCi/g	confirmation
15	CP38-010	749139.795	2085846.585	3.6	3.9	Plutonium-239/240	42.26	0.02	50	pCi/g	confirmation
15	CP38-010	749139.795	2085846.585	3.6	3.9	Uranium-234	2.75	2.64	300	pCi/g	confirmation
15	CP38-010	749139.795	2085846.585	3.6	3.9	Uranium-238	2.75	1.49	351	pCi/g	confirmation
16	CP39-028	749164.828	2085846.8509	2.92	3.22	Uranium-234	4.66	2.64	300	pCi/g	confirmation
16	CP39-028	749164.828	2085846.8509	2.92	3.22	Uranium-235	0.28	0.12	8	pCi/g	confirmation
16	CP39-028	749164.828	2085846.8509	2.92	3.22	Uranium-238	4.66	1.49	351	pCi/g	confirmation
16	CP39-034	749164.809	2085837.8	3.24	3.54	Uranium-234	3.73	2.64	300	pCi/g	random
16	CP39-034	749164.809	2085837.8	3.24	3.54	Uranium-235	0.16	0.12	8	pCi/g	random
16	CP39-034	749164.809	2085837.8	3.24	3.54	Uranium-238	3.73	1.49	351	pCi/g	random
17	CP38-012	749115.39	2085872.799	1.99	2.29	Americium-241	1.50	0.02	76	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
I7	CP38-012	749115.39	2085872.799	1.99	2.29	Plutonium-239/240	15.34	0.02	50	pCi/g	confirmation
I7	CP38-012	749115.39	2085872.799	1.99	2.29	Uranium-234	5.23	2.64	300	pCi/g	confirmation
I7	CP38-012	749115.39	2085872.799	1.99	2.29	Uranium-235	0.22	0.12	8	pCi/g	confirmation
I7	CP38-012	749115.39	2085872.799	1.99	2.29	Uranium-238	5.23	1.49	351	pCi/g	confirmation
I8	CP38-013	749140.184	2085873.044	2.16	2.46	Uranium-234	3.84	2.64	300	pCi/g	confirmation
I8	CP38-013	749140.184	2085873.044	2.16	2.46	Uranium-235	0.21	0.12	8	pCi/g	confirmation
I8	CP38-013	749140.184	2085873.044	2.16	2.46	Uranium-238	3.84	1.49	351	pCi/g	confirmation
I9	CP39-029	749165.167	2085873.306	2.2	2.5	Uranium-234	4.55	2.64	300	pCi/g	confirmation
I9	CP39-029	749165.167	2085873.306	2.2	2.5	Uranium-235	0.21	0.12	8	pCi/g	confirmation
I9	CP39-029	749165.167	2085873.306	2.2	2.5	Uranium-238	4.55	1.49	351	pCi/g	confirmation
J1	CP38-017	749115.783	2085897.851	2.58	2.88	Americium-241	1.87	0.02	76	pCi/g	confirmation
J1	CP38-017	749115.783	2085897.851	2.58	2.88	Plutonium-239/240	18.37	0.02	50	pCi/g	confirmation
J1	CP38-017	749115.783	2085897.851	2.58	2.88	Uranium-234	5.93	2.64	300	pCi/g	confirmation
J1	CP38-017	749115.783	2085897.851	2.58	2.88	Uranium-235	0.20	0.12	8	pCi/g	confirmation
J1	CP38-017	749115.783	2085897.851	2.58	2.88	Uranium-238	5.93	1.49	351	pCi/g	confirmation
J2	CP38-016	749140.636	2085897.967	2.72	3.02	Uranium-234	4.17	2.64	300	pCi/g	confirmation
J2	CP38-016	749140.636	2085897.967	2.72	3.02	Uranium-238	4.17	1.49	351	pCi/g	confirmation
J3	CP39-031	749165.569	2085898.093	2.52	2.82	Americium-241	5.06	0.02	76	pCi/g	confirmation
J3	CP39-031	749165.569	2085898.093	2.52	2.82	Plutonium-239/240	44.16	0.02	50	pCi/g	confirmation
J3	CP39-031	749165.569	2085898.093	2.52	2.82	Uranium-234	46.96	2.64	300	pCi/g	confirmation
J3	CP39-031	749165.569	2085898.093	2.52	2.82	Uranium-235	1.03	0.12	8	pCi/g	confirmation
J3	CP39-031	749165.569	2085898.093	2.52	2.82	Uranium-238	46.96	1.49	351	pCi/g	confirmation
J3	CP39-035	749169.516	2085902.242	2.74	3.04	Americium-241	0.81	0.02	76	pCi/g	random
J3	CP39-035	749169.516	2085902.242	2.74	3.04	Plutonium-239/240	9.81	0.02	50	pCi/g	random
J3	CP39-035	749169.516	2085902.242	2.74	3.04	Uranium-234	48.47	2.64	300	pCi/g	random
J3	CP39-035	749169.516	2085902.242	2.74	3.04	Uranium-235	0.89	0.12	8	pCi/g	random
J3	CP39-035	749169.516	2085902.242	2.74	3.04	Uranium-238	48.47	1.49	351	pCi/g	random
J4	CP38-015	749116.036	2085922.912	2.47	2.77	Americium-241	1.12	0.02	76	pCi/g	confirmation
J4	CP38-015	749116.036	2085922.912	2.47	2.77	Plutonium-239/240	12.25	0.02	50	pCi/g	confirmation

## Closeout Report for IHSS Group 900-11, IHSS 112 – 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
J4	CP38-015	749116.036	2085922.912	2.47	2.77	Uranium-234	5.70	2.64	300	pCi/g	confirmation
J4	CP38-015	749116.036	2085922.912	2.47	2.77	Uranium-235	0.30	0.12	8	pCi/g	confirmation
J4	CP38-015	749116.036	2085922.912	2.47	2.77	Uranium-238	5.70	1.49	351	pCi/g	confirmation
J5	CP38-014	749140.937	2085922.898	3.03	3.33	Americium-241	0.92	0.02	76	pCi/g	confirmation
J5	CP38-014	749140.937	2085922.898	3.03	3.33	Plutonium-239/240	10.64	0.02	50	pCi/g	confirmation
J5	CP38-014	749140.937	2085922.898	3.03	3.33	Uranium-234	3.84	2.64	300	pCi/g	confirmation
J5	CP38-014	749140.937	2085922.898	3.03	3.33	Uranium-235	0.20	0.12	8	pCi/g	confirmation
J5	CP38-014	749140.937	2085922.898	3.03	3.33	Uranium-238	3.84	1.49	351	pCi/g	confirmation
J6	CP39-030	749165.825	2085922.899	2.66	2.96	Americium-241	0.45	0.02	76	pCi/g	confirmation
J6	CP39-030	749165.825	2085922.899	2.66	2.96	Plutonium-239/240	6.86	0.02	50	pCi/g	confirmation
J6	CP39-030	749165.825	2085922.899	2.66	2.96	Uranium-234	4.53	2.64	300	pCi/g	confirmation
J6	CP39-030	749165.825	2085922.899	2.66	2.96	Uranium-235	0.23	0.12	8	pCi/g	confirmation
J6	CP39-030	749165.825	2085922.899	2.66	2.96	Uranium-238	4.53	1.49	351	pCi/g	confirmation
J6	CP39-039	749162.825	2085925.899	2.85	3.15	Uranium-234	3.32	2.64	300	pCi/g	biased
J6	CP39-039	749162.825	2085925.899	2.85	3.15	Uranium-235	0.18	0.12	8	pCi/g	biased
J6	CP39-039	749162.825	2085925.899	2.85	3.15	Uranium-238	3.32	1.49	351	pCi/g	biased
J7	CQ38-000	749116.354	2085947.651	2.26	2.56	Americium-241	0.25	0.02	76	pCi/g	confirmation
J7	CQ38-000	749116.354	2085947.651	2.26	2.56	Plutonium-239/240	0.97	0.02	50	pCi/g	confirmation
J7	CQ38-000	749116.354	2085947.651	2.26	2.56	Uranium-234	0.74	2.64	300	pCi/g	confirmation
J7	CQ38-000	749116.354	2085947.651	2.26	2.56	Uranium-238	0.36	1.49	351	pCi/g	confirmation
J8	CQ38-001	749141.309	2085947.631	3.01	3.31	Americium-241	3.12	0.02	76	pCi/g	confirmation
J8	CQ38-001	749141.309	2085947.631	3.01	3.31	Plutonium-239/240	28.47	0.02	50	pCi/g	confirmation
J8	CQ38-001	749141.309	2085947.631	3.01	3.31	Uranium-234	3.83	2.64	300	pCi/g	confirmation
J8	CQ38-001	749141.309	2085947.631	3.01	3.31	Uranium-235	0.22	0.12	8	pCi/g	confirmation
J8	CQ38-001	749141.309	2085947.631	3.01	3.31	Uranium-238	3.83	1.49	351	pCi/g	confirmation
J9	CQ39-003	749166.151	2085947.623	2.61	2.91	Uranium-234	5.68	2.64	300	pCi/g	confirmation
J9	CQ39-003	749166.151	2085947.623	2.61	2.91	Uranium-235	0.19	0.12	8	pCi/g	confirmation
J9	CQ39-003	749166.151	2085947.623	2.61	2.91	Uranium-238	5.68	1.49	351	pCi/g	confirmation
K1	CO38-013	749037.141	2085582.916	2.98	3.00	Americium-241	0.74	0.02	76	pCi/g	confirmation

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## Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
K1	CO38-013	749037.141	2085582.916	2.98	3.00	Plutonium-239/240	9.19	0.02	50	pCi/g	confirmation
K1	CO38-013	749037.141	2085582.916	2.98	3.00	Uranium-234	2.06	2.64	300	pCi/g	confirmation
K1	CO38-013	749037.141	2085582.916	2.98	3.00	Uranium-238	2.06	1.49	351	pCi/g	confirmation
K2*	CELL K2	749052.749	2085569.979	1.5	1.8	Americium-241	428.20	0.02	76	pCi/g	additional
K2*	CELL K2	749052.749	2085569.979	1.5	1.8	Plutonium-239/240	3463.10	0.02	50	pCi/g	additional
K2*	CELL K2	749052.749	2085569.979	1.5	1.8	Uranium-234	1.86	2.64	300	pCi/g	additional
K2*	CELL K2	749052.749	2085569.979	1.5	1.8	Uranium-238	1.86	1.49	351	pCi/g	additional
K2*	CO38-014	749061.458	2085582.952	2.8	3.1	Americium-241	1.58	0.02	76	pCi/g	confirmation
K2*	CO38-014	749061.458	2085582.952	2.8	3.1	Plutonium-239/240	16.02	0.02	50	pCi/g	confirmation
K2*	CO38-014	749061.458	2085582.952	2.8	3.1	Uranium-234	1.64	2.64	300	pCi/g	confirmation
K2*	CO38-014	749061.458	2085582.952	2.8	3.1	Uranium-235	0.15	0.12	8	pCi/g	confirmation
K2*	CO38-014	749061.458	2085582.952	2.8	3.1	Uranium-238	1.64	1.49	351	pCi/g	confirmation
K3	CO38-015	749086.977	2085583.016	2.94	3.24	Americium-241	2.82	0.02	76	pCi/g	confirmation
K3	CO38-015	749086.977	2085583.016	2.94	3.24	Plutonium-239/240	26.00	0.02	50	pCi/g	confirmation
K3	CO38-015	749086.977	2085583.016	2.94	3.24	Uranium-234	1.36	2.64	300	pCi/g	confirmation
K3	CO38-015	749086.977	2085583.016	2.94	3.24	Uranium-235	0.17	0.12	8	pCi/g	confirmation
K3	CO38-015	749086.977	2085583.016	2.94	3.24	Uranium-238	1.36	1.49	351	pCi/g	confirmation
K4	CO38-016	749037.504	2085608.941	2.99	3.29	Americium-241	0.41	0.02	76	pCi/g	confirmation
K4	CO38-016	749037.504	2085608.941	2.99	3.29	Plutonium-239/240	6.51	0.02	50	pCi/g	confirmation
K4	CO38-016	749037.504	2085608.941	2.99	3.29	Uranium-234	1.41	2.64	300	pCi/g	confirmation
K4	CO38-016	749037.504	2085608.941	2.99	3.29	Uranium-235	0.23	0.12	8	pCi/g	confirmation
K4	CO38-016	749037.504	2085608.941	2.99	3.29	Uranium-238	1.41	1.49	351	pCi/g	confirmation
K5	CO38-017	749061.858	2085608.968	3.64	3.84	Americium-241	0.71	0.02	76	pCi/g	confirmation
K5	CO38-017	749061.858	2085608.968	3.64	3.84	Plutonium-239/240	8.98	0.02	50	pCi/g	confirmation
K5	CO38-017	749061.858	2085608.968	3.64	3.84	Uranium-234	1.52	2.64	300	pCi/g	confirmation
K5	CO38-017	749061.858	2085608.968	3.64	3.84	Uranium-235	0.15	0.12	8	pCi/g	confirmation
K5	CO38-017	749061.858	2085608.968	3.64	3.84	Uranium-238	1.52	1.49	351	pCi/g	confirmation
K6	CO38-018	749087.329	2085609.014	3.19	3.49	Americium-241	2.08	0.02	76	pCi/g	confirmation
K6	CO38-018	749087.329	2085609.014	3.19	3.49	Plutonium-239/240	20.06	0.02	50	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
K6	CO38-018	749087.329	2085609.014	3.19	3.49	Uranium-234	1.69	2.64	300	pCi/g	confirmation
K6	CO38-018	749087.329	2085609.014	3.19	3.49	Uranium-238	1.69	1.49	351	pCi/g	confirmation
K7	CO38-021	749037.737	2085634.417	4.02	4.32	Americium-241	1.09	0.02	76	pCi/g	confirmation
K7	CO38-021	749037.737	2085634.417	4.02	4.32	Plutonium-239/240	12.05	0.02	50	pCi/g	confirmation
K7	CO38-021	749037.737	2085634.417	4.02	4.32	Uranium-234	1.45	2.64	300	pCi/g	confirmation
K7	CO38-021	749037.737	2085634.417	4.02	4.32	Uranium-235	0.11	0.12	8	pCi/g	confirmation
K7	CO38-021	749037.737	2085634.417	4.02	4.32	Uranium-238	1.45	1.49	351	pCi/g	confirmation
K8	CO38-020	749062.174	2085634.59	4.0	4.3	Americium-241	4.55	0.02	76	pCi/g	confirmation
K8	CO38-020	749062.174	2085634.59	4.0	4.3	Plutonium-239/240	39.98	0.02	50	pCi/g	confirmation
K8	CO38-020	749062.174	2085634.59	4.0	4.3	Uranium-235	0.15	0.12	8	pCi/g	confirmation
K9	CO38-019	749087.594	2085634.741	2.88	3.08	Americium-241	3.73	0.02	76	pCi/g	confirmation
K9	CO38-019	749087.594	2085634.741	2.88	3.08	Plutonium-239/240	11.90	0.02	50	pCi/g	confirmation
K9	CO38-019	749087.594	2085634.741	2.88	3.08	Uranium-234	1.05	2.64	300	pCi/g	confirmation
K9	CO38-019	749087.594	2085634.741	2.88	3.08	Uranium-238	3.46	1.49	351	pCi/g	confirmation
L1	CO38-022	749038.25	2085659.785	5.19	5.39	Americium-241	20.13	0.02	76	pCi/g	confirmation
L1	CO38-022	749038.25	2085659.785	5.19	5.39	Plutonium-239/240	165.89	0.02	50	pCi/g	confirmation
L1	CO38-022	749038.25	2085659.785	5.19	5.39	Uranium-234	1.39	2.64	300	pCi/g	confirmation
L1	CO38-022	749038.25	2085659.785	5.19	5.39	Uranium-235	0.12	0.12	8	pCi/g	confirmation
L1	CO38-022	749038.25	2085659.785	5.19	5.39	Uranium-238	1.39	1.49	351	pCi/g	confirmation
L2	CO38-023	749062.65	2085660.064	4.72	4.92	Americium-241	12.70	0.02	76	pCi/g	confirmation
L2	CO38-023	749062.65	2085660.064	4.72	4.92	Plutonium-239/240	147.00	0.02	50	pCi/g	confirmation
L2	CO38-023	749062.65	2085660.064	4.72	4.92	Uranium-238	0.53	1.49	351	pCi/g	confirmation
L3	CO38-024	749087.99	2085660.314	3.44	3.64	Americium-241	4.89	0.02	76	pCi/g	confirmation
L3	CO38-024	749087.99	2085660.314	3.44	3.64	Plutonium-239/240	42.78	0.02	50	pCi/g	confirmation
L4	CO38-027	749038.565	2085686.117	5.0	5.3	Americium-241	0.57	0.02	76	pCi/g	confirmation
L4	CO38-027	749038.565	2085686.117	5.0	5.3	Plutonium-239/240	7.85	0.02	50	pCi/g	confirmation
L4	CO38-027	749038.565	2085686.117	5.0	5.3	Uranium-234	3.90	2.64	300	pCi/g	confirmation
L4	CO38-027	749038.565	2085686.117	5.0	5.3	Uranium-235	0.22	0.12	8	pCi/g	confirmation
L4	CO38-027	749038.565	2085686.117	5.0	5.3	Uranium-238	3.90	1.49	351	pCi/g	confirmation

## Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
L5	CO38-026	749063.022	2085686.166	5.5	5.6	Americium-241	1.30	0.02	76	pCi/g	confirmation
L5	CO38-026	749063.022	2085686.166	5.5	5.6	Plutonium-239/240	13.74	0.02	50	pCi/g	confirmation
L5	CO38-026	749063.022	2085686.166	5.5	5.6	Uranium-234	4.50	2.64	300	pCi/g	confirmation
L5	CO38-026	749063.022	2085686.166	5.5	5.6	Uranium-235	0.27	0.12	8	pCi/g	confirmation
L5	CO38-026	749063.022	2085686.166	5.5	5.6	Uranium-238	4.50	1.49	351	pCi/g	confirmation
L5	CO38-053	749069.858	2085699.244	4.5	5.0	Americium-241	24.50	0.02	76	pCi/g	random
L5	CO38-053	749069.858	2085699.244	4.5	5.0	Plutonium-239/240	183.00	0.02	50	pCi/g	random
L5	CO38-053	749069.858	2085699.244	4.5	5.0	Uranium-234	1.89	2.64	300	pCi/g	random
L5	CO38-053	749069.858	2085699.244	4.5	5.0	Uranium-235	0.16	0.12	8	pCi/g	random
L5	CO38-053	749069.858	2085699.244	4.5	5.0	Uranium-238	0.82	1.49	351	pCi/g	random
L6	CO38-025	749088.276	2085686.278	5.1	5.4	Americium-241	3.56	0.02	76	pCi/g	confirmation
L6	CO38-025	749088.276	2085686.278	5.1	5.4	Plutonium-239/240	92.20	0.02	50	pCi/g	confirmation
L6	CO38-025	749088.276	2085686.278	5.1	5.4	Uranium-234	0.76	2.64	300	pCi/g	confirmation
L6	CO38-025	749088.276	2085686.278	5.1	5.4	Uranium-238	0.52	1.49	351	pCi/g	confirmation
L7	CO38-028	749039.108	2085712.763	5.1	5.4	Americium-241	5.77	0.02	76	pCi/g	confirmation
L7	CO38-028	749039.108	2085712.763	5.1	5.4	Plutonium-239/240	10.00	0.02	50	pCi/g	confirmation
L7	CO38-028	749039.108	2085712.763	5.1	5.4	Uranium-234	0.75	2.64	300	pCi/g	confirmation
L7	CO38-028	749039.108	2085712.763	5.1	5.4	Uranium-235	0.13	0.12	8	pCi/g	confirmation
L7	CO38-028	749039.108	2085712.763	5.1	5.4	Uranium-238	0.55	1.49	351	pCi/g	confirmation
L8	CO38-029	749063.692	2085713.168	4.5	5.1	Americium-241	4.82	0.02	76	pCi/g	confirmation
L8	CO38-029	749063.692	2085713.168	4.5	5.1	Plutonium-239/240	98.20	0.02	50	pCi/g	confirmation
L8	CO38-029	749063.692	2085713.168	4.5	5.1	Uranium-234	1.25	2.64	300	pCi/g	confirmation
L8	CO38-029	749063.692	2085713.168	4.5	5.1	Uranium-235	0.21	0.12	8	pCi/g	confirmation
L8	CO38-029	749063.692	2085713.168	4.5	5.1	Uranium-238	0.57	1.49	351	pCi/g	confirmation
L8	CO38-055	749063.692	2085718.1675	8.0	8.3	Americium-241	52.00	0.02	76	pCi/g	random
L8	CO38-055	749063.692	2085718.1675	8.0	8.3	Plutonium-239/240	423.40	0.02	50	pCi/g	random
L8	CO38-055	749063.692	2085718.1675	8.0	8.3	Uranium-234	3.20	2.64	300	pCi/g	random
L8	CO38-055	749063.692	2085718.1675	8.0	8.3	Uranium-235	0.21	0.12	8	pCi/g	random
L8	CO38-055	749063.692	2085718.1675	8.0	8.3	Uranium-238	3.20	1.49	351	pCi/g	random



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Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
L9	CO38-030	749088.617	2085713.312	2.9	3.2	Americium-241	1.30	0.02	76	pCi/g	confirmation
L9	CO38-030	749088.617	2085713.312	2.9	3.2	Plutonium-239/240	13.74	0.02	50	pCi/g	confirmation
L9	CO38-030	749088.617	2085713.312	2.9	3.2	Uranium-234	3.50	2.64	300	pCi/g	confirmation
L9	CO38-030	749088.617	2085713.312	2.9	3.2	Uranium-235	0.23	0.12	8	pCi/g	confirmation
L9	CO38-030	749088.617	2085713.312	2.9	3.2	Uranium-238	3.50	1.49	351	pCi/g	confirmation
M1	CP38-020	749039.534	2085740.026	4.38	4.58	Americium-241	0.51	0.02	76	pCi/g	confirmation
M1	CP38-020	749039.534	2085740.026	4.38	4.58	Plutonium-239/240	7.35	0.02	50	pCi/g	confirmation
M1	CP38-020	749039.534	2085740.026	4.38	4.58	Uranium-234	1.69	2.64	300	pCi/g	confirmation
M1	CP38-020	749039.534	2085740.026	4.38	4.58	Uranium-238	1.69	1.49	351	pCi/g	confirmation
M2	CP38-019	749064.108	2085739.846	4.55	4.75	Americium-241	36.40	0.02	76	pCi/g	confirmation
M2	CP38-019	749064.108	2085739.846	4.55	4.75	Plutonium-239/240	297.35	0.02	50	pCi/g	confirmation
M2	CP38-019	749064.108	2085739.846	4.55	4.75	Uranium-234	1.55	2.64	300	pCi/g	confirmation
M2	CP38-019	749064.108	2085739.846	4.55	4.75	Uranium-235	0.12	0.12	8	pCi/g	confirmation
M2	CP38-019	749064.108	2085739.846	4.55	4.75	Uranium-238	1.55	1.49	351	pCi/g	confirmation
M3	CP38-018	749089.011	2085740.104	2.97	3.17	Americium-241	0.46	0.02	76	pCi/g	confirmation
M3	CP38-018	749089.011	2085740.104	2.97	3.17	Plutonium-239/240	6.94	0.02	50	pCi/g	confirmation
M3	CP38-018	749089.011	2085740.104	2.97	3.17	Uranium-235	0.13	0.12	8	pCi/g	confirmation
M4	CP38-021	749039.689	2085766.236	2.95	3.25	Americium-241	2.67	0.02	76	pCi/g	confirmation
M4	CP38-021	749039.689	2085766.236	2.95	3.25	Plutonium-239/240	24.85	0.02	50	pCi/g	confirmation
M4	CP38-021	749039.689	2085766.236	2.95	3.25	Uranium-235	0.10	0.12	8	pCi/g	confirmation
M5	CP38-022	749064.223	2085766.414	2.8	3.1	Americium-241	5.74	0.02	76	pCi/g	confirmation
M5	CP38-022	749064.223	2085766.414	2.8	3.1	Plutonium-239/240	49.60	0.02	50	pCi/g	confirmation
M5	CP38-022	749064.223	2085766.414	2.8	3.1	Uranium-234	1.26	2.64	300	pCi/g	confirmation
M5	CP38-022	749064.223	2085766.414	2.8	3.1	Uranium-238	1.26	1.49	351	pCi/g	confirmation
M6	CP38-023	749089.301	2085766.66	2.48	2.78	Americium-241	3.21	0.02	76	pCi/g	confirmation
M6	CP38-023	749089.301	2085766.66	2.48	2.78	Plutonium-239/240	29.18	0.02	50	pCi/g	confirmation
M7	CP38-026	749040.113	2085792.725	2.15	2.45	Americium-241	1.51	0.02	76	pCi/g	confirmation
M7	CP38-026	749040.113	2085792.725	2.15	2.45	Plutonium-239/240	15.47	0.02	50	pCi/g	confirmation
M7	CP38-026	749040.113	2085792.725	2.15	2.45	Uranium-234	1.33	2.64	300	pCi/g	confirmation

## Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
M7	CP38-026	749040.113	2085792.725	2.15	2.45	Uranium-238	1.33	1.49	351	pCi/g	confirmation
M8	CP38-025	749064.62	2085792.91	3.0	3.2	Americium-241	0.21	0.02	76	pCi/g	confirmation
M8	CP38-025	749064.62	2085792.91	3.0	3.2	Plutonium-239/240	1.10	0.02	50	pCi/g	confirmation
M8	CP38-025	749064.62	2085792.91	3.0	3.2	Uranium-234	0.35	2.64	300	pCi/g	confirmation
M8	CP38-025	749064.62	2085792.91	3.0	3.2	Uranium-238	0.53	1.49	351	pCi/g	confirmation
M9	CP38-024	749089.657	2085793.166	2.05	2.35	Americium-241	0.27	0.02	76	pCi/g	confirmation
M9	CP38-024	749089.657	2085793.166	2.05	2.35	Plutonium-239/240	5.39	0.02	50	pCi/g	confirmation
M9	CP38-024	749089.657	2085793.166	2.05	2.35	Uranium-235	0.13	0.12	8	pCi/g	confirmation
N1	CP38-027	749040.436	2085819.198	2.78	2.98	Americium-241	0.91	0.02	76	pCi/g	confirmation
N1	CP38-027	749040.436	2085819.198	2.78	2.98	Plutonium-239/240	10.55	0.02	50	pCi/g	confirmation
N3	CP38-029	749090.035	2085819.625	2.7	2.9	Americium-241	1.94	0.02	76	pCi/g	confirmation
N3	CP38-029	749090.035	2085819.625	2.7	2.9	Plutonium-239/240	8.51	0.02	50	pCi/g	confirmation
N3	CP38-029	749090.035	2085819.625	2.7	2.9	Uranium-234	0.49	2.64	300	pCi/g	confirmation
N3	CP38-029	749090.035	2085819.625	2.7	2.9	Uranium-238	1.07	1.49	351	pCi/g	confirmation
N4	CP38-032	749040.821	2085845.671	3.3	3.5	Americium-241	1.66	0.02	76	pCi/g	confirmation
N4	CP38-032	749040.821	2085845.671	3.3	3.5	Plutonium-239/240	16.65	0.02	50	pCi/g	confirmation
N5	CP38-031	749065.419	2085845.902	3.23	3.53	Uranium-235	0.13	0.12	8	pCi/g	confirmation
N6	CP38-030	749090.452	2085846.168	3.41	3.66	Americium-241	1.00	0.02	76	pCi/g	confirmation
N6	CP38-030	749090.452	2085846.168	3.41	3.66	Plutonium-239/240	11.34	0.02	50	pCi/g	confirmation
N6	CP38-030	749090.452	2085846.168	3.41	3.66	Uranium-234	1.47	2.64	300	pCi/g	confirmation
N6	CP38-030	749090.452	2085846.168	3.41	3.66	Uranium-235	0.11	0.12	8	pCi/g	confirmation
N6	CP38-030	749090.452	2085846.168	3.41	3.66	Uranium-238	1.47	1.49	351	pCi/g	confirmation
N7	CP38-033	749041.182	2085872.146	2.84	3.04	Americium-241	2.48	0.02	76	pCi/g	confirmation
N7	CP38-033	749041.182	2085872.146	2.84	3.04	Plutonium-239/240	23.25	0.02	50	pCi/g	confirmation
N7	CP38-033	749041.182	2085872.146	2.84	3.04	Uranium-234	1.50	2.64	300	pCi/g	confirmation
N7	CP38-033	749041.182	2085872.146	2.84	3.04	Uranium-238	1.50	1.49	351	pCi/g	confirmation
N8	CP38-034	749065.808	2085872.374	2.8	3.1	Uranium-234	1.04	2.64	300	pCi/g	confirmation
N8	CP38-034	749065.808	2085872.374	2.8	3.1	Uranium-238	1.04	1.49	351	pCi/g	confirmation
N9	CP38-035	749090.791	2085872.635	2.5	2.7	Americium-241	0.52	0.02	76	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
N9	CP38-035	749090.791	2085872.635	2.5	2.7	Plutonium-239/240	7.46	0.02	50	pCi/g	confirmation
N9	CP38-035	749090.791	2085872.635	2.5	2.7	Uranium-234	1.78	2.64	300	pCi/g	confirmation
N9	CP38-035	749090.791	2085872.635	2.5	2.7	Uranium-238	1.78	1.49	351	pCi/g	confirmation
O1	CP38-041	749041.605	2085897.556	4.15	4.45	Uranium-234	3.59	2.64	300	pCi/g	confirmation
O1	CP38-041	749041.605	2085897.556	4.15	4.45	Uranium-235	0.22	0.12	8	pCi/g	confirmation
O1	CP38-041	749041.605	2085897.556	4.15	4.45	Uranium-238	3.59	1.49	351	pCi/g	confirmation
O2	CP38-040	749066.26	2085897.661	3.53	3.73	Americium-241	4.60	0.02	76	pCi/g	confirmation
O2	CP38-040	749066.26	2085897.661	3.53	3.73	Plutonium-239/240	40.44	0.02	50	pCi/g	confirmation
O2	CP38-040	749066.26	2085897.661	3.53	3.73	Uranium-234	2.21	2.64	300	pCi/g	confirmation
O2	CP38-040	749066.26	2085897.661	3.53	3.73	Uranium-235	0.17	0.12	8	pCi/g	confirmation
O2	CP38-040	749066.26	2085897.661	3.53	3.73	Uranium-238	2.21	1.49	351	pCi/g	confirmation
O3	CP38-039	749091.191	2085897.796	3.45	3.65	Americium-241	1.14	0.02	76	pCi/g	confirmation
O3	CP38-039	749091.191	2085897.796	3.45	3.65	Plutonium-239/240	12.48	0.02	50	pCi/g	confirmation
O4	CP38-038	749041.897	2085923.034	4.42	4.72	Americium-241	0.38	0.02	76	pCi/g	confirmation
O4	CP38-038	749041.897	2085923.034	4.42	4.72	Plutonium-239/240	0.82	0.02	50	pCi/g	confirmation
O4	CP38-038	749041.897	2085923.034	4.42	4.72	Uranium-234	0.48	2.64	300	pCi/g	confirmation
O4	CP38-038	749041.897	2085923.034	4.42	4.72	Uranium-238	0.46	1.49	351	pCi/g	confirmation
O5	CP38-037	749066.573	2085923.004	3.57	3.87	Americium-241	4.55	0.02	76	pCi/g	confirmation
O5	CP38-037	749066.573	2085923.004	3.57	3.87	Plutonium-239/240	40.04	0.02	50	pCi/g	confirmation
O5	CP38-037	749066.573	2085923.004	3.57	3.87	Uranium-234	3.76	2.64	300	pCi/g	confirmation
O5	CP38-037	749066.573	2085923.004	3.57	3.87	Uranium-235	0.25	0.12	8	pCi/g	confirmation
O5	CP38-037	749066.573	2085923.004	3.57	3.87	Uranium-238	3.76	1.49	351	pCi/g	confirmation
O6	CP38-036	749091.459	2085923.005	4.5	4.53	Americium-241	3.05	0.02	76	pCi/g	confirmation
O6	CP38-036	749091.459	2085923.005	4.5	4.53	Plutonium-239/240	27.88	0.02	50	pCi/g	confirmation
O6	CP38-036	749091.459	2085923.005	4.5	4.53	Uranium-234	6.57	2.64	300	pCi/g	confirmation
O6	CP38-036	749091.459	2085923.005	4.5	4.53	Uranium-235	0.27	0.12	8	pCi/g	confirmation
O6	CP38-036	749091.459	2085923.005	4.5	4.53	Uranium-238	6.57	1.49	351	pCi/g	confirmation
O7	CQ38-002	749042.243	2085947.769	3.43	3.73	Americium-241	4.95	0.02	76	pCi/g	confirmation
O7	CQ38-002	749042.243	2085947.769	3.43	3.73	Plutonium-239/240	43.20	0.02	50	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
O7	CQ38-002	749042.243	2085947.769	3.43	3.73	Uranium-234	4.02	2.64	300	pCi/g	confirmation
O7	CQ38-002	749042.243	2085947.769	3.43	3.73	Uranium-235	0.23	0.12	8	pCi/g	confirmation
O7	CQ38-002	749042.243	2085947.769	3.43	3.73	Uranium-238	4.02	1.49	351	pCi/g	confirmation
O7	CQ38-008	749049.305	2085959.017	3.59	3.89	Americium-241	2.72	0.02	76	pCi/g	random
O7	CQ38-008	749049.305	2085959.017	3.59	3.89	Plutonium-239/240	25.24	0.02	50	pCi/g	random
O7	CQ38-008	749049.305	2085959.017	3.59	3.89	Uranium-234	2.11	2.64	300	pCi/g	random
O7	CQ38-008	749049.305	2085959.017	3.59	3.89	Uranium-235	0.21	0.12	8	pCi/g	random
O7	CQ38-008	749049.305	2085959.017	3.59	3.89	Uranium-238	2.11	1.49	351	pCi/g	random
O8	CQ38-003	749066.945	2085947.737	4.04	4.34	Uranium-234	4.02	2.64	300	pCi/g	confirmation
O8	CQ38-003	749066.945	2085947.737	4.04	4.34	Uranium-238	4.02	1.49	351	pCi/g	confirmation
O9	CQ38-004	749091.785	2085947.729	2.79	3.25	Uranium-234	4.93	2.64	300	pCi/g	confirmation
O9	CQ38-004	749091.785	2085947.729	2.79	3.25	Uranium-235	0.12	0.12	8	pCi/g	confirmation
O9	CQ38-004	749091.785	2085947.729	2.79	3.25	Uranium-238	4.93	1.49	351	pCi/g	confirmation
P1	CO38-031	748962.976	2085582.81	2.73	3.03	Uranium-234	4.03	2.64	300	pCi/g	confirmation
P1	CO38-031	748962.976	2085582.81	2.73	3.03	Uranium-235	0.17	0.12	8	pCi/g	confirmation
P1	CO38-031	748962.976	2085582.81	2.73	3.03	Uranium-238	4.03	1.49	351	pCi/g	confirmation
P2	CO38-032	748987.51	2085582.861	2.01	2.31	Americium-241	2.04	0.02	76	pCi/g	confirmation
P2	CO38-032	748987.51	2085582.861	2.01	2.31	Plutonium-239/240	19.71	0.02	50	pCi/g	confirmation
P2	CO38-032	748987.51	2085582.861	2.01	2.31	Uranium-234	2.62	2.64	300	pCi/g	confirmation
P2	CO38-032	748987.51	2085582.861	2.01	2.31	Uranium-235	0.22	0.12	8	pCi/g	confirmation
P2	CO38-032	748987.51	2085582.861	2.01	2.31	Uranium-238	2.62	1.49	351	pCi/g	confirmation
P3	CO38-033	749012.653	2085582.91	2.56	2.86	Uranium-234	4.01	2.64	300	pCi/g	confirmation
P3	CO38-033	749012.653	2085582.91	2.56	2.86	Uranium-235	0.26	0.12	8	pCi/g	confirmation
P3	CO38-033	749012.653	2085582.91	2.56	2.86	Uranium-238	4.01	1.49	351	pCi/g	confirmation
P4	CO37-018	748956.126	2085600.797	3.06	3.36	Americium-241	1.72	0.02	76	pCi/g	random
P4	CO37-018	748956.126	2085600.797	3.06	3.36	Plutonium-239/240	17.16	0.02	50	pCi/g	random
P4	CO37-018	748956.126	2085600.797	3.06	3.36	Uranium-234	4.25	2.64	300	pCi/g	random
P4	CO37-018	748956.126	2085600.797	3.06	3.36	Uranium-238	4.25	1.49	351	pCi/g	random
P4	CO38-034	748963.366	2085608.815	3.58	3.88	Uranium-234	3.77	2.64	300	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
P4	CO38-034	748963.366	2085608.815	3.58	3.88	Uranium-238	3.77	1.49	351	pCi/g	confirmation
P5	CO38-035	748987.916	2085608.929	3.76	4.06	Uranium-234	4.21	2.64	300	pCi/g	confirmation
P5	CO38-035	748987.916	2085608.929	3.76	4.06	Uranium-235	0.18	0.12	8	pCi/g	confirmation
P5	CO38-035	748987.916	2085608.929	3.76	4.06	Uranium-238	4.21	1.49	351	pCi/g	confirmation
P5	CO38-063	748987.916	2085606.929	3.76	4.06	Uranium-234	3.19	2.64	300	pCi/g	biased
P5	CO38-063	748987.916	2085606.929	3.76	4.06	Uranium-235	0.16	0.12	8	pCi/g	biased
P5	CO38-063	748987.916	2085606.929	3.76	4.06	Uranium-238	3.19	1.49	351	pCi/g	biased
P6	CO38-036	749013.024	2085608.919	3.12	3.42	Uranium-234	4.69	2.64	300	pCi/g	confirmation
P6	CO38-036	749013.024	2085608.919	3.12	3.42	Uranium-235	0.24	0.12	8	pCi/g	confirmation
P6	CO38-036	749013.024	2085608.919	3.12	3.42	Uranium-238	4.69	1.49	351	pCi/g	confirmation
P7	CO38-039	748963.648	2085634.094	2.42	2.72	Americium-241	3.52	0.02	76	pCi/g	confirmation
P7	CO38-039	748963.648	2085634.094	2.42	2.72	Plutonium-239/240	31.68	0.02	50	pCi/g	confirmation
P7	CO38-039	748963.648	2085634.094	2.42	2.72	Uranium-234	3.81	2.64	300	pCi/g	confirmation
P7	CO38-039	748963.648	2085634.094	2.42	2.72	Uranium-235	0.22	0.12	8	pCi/g	confirmation
P7	CO38-039	748963.648	2085634.094	2.42	2.72	Uranium-238	3.81	1.49	351	pCi/g	confirmation
P8	CO38-038	748988.259	2085634.044	3.46	3.76	Americium-241	0.29	0.02	76	pCi/g	confirmation
P8	CO38-038	748988.259	2085634.044	3.46	3.76	Plutonium-239/240	1.26	0.02	50	pCi/g	confirmation
P8	CO38-038	748988.259	2085634.044	3.46	3.76	Uranium-234	0.53	2.64	300	pCi/g	confirmation
P8	CO38-038	748988.259	2085634.044	3.46	3.76	Uranium-238	0.76	1.49	351	pCi/g	confirmation
P9	CO38-037	749013.292	2085634.265	3.21	3.51	Americium-241	3.49	0.02	76	pCi/g	confirmation
P9	CO38-037	749013.292	2085634.265	3.21	3.51	Plutonium-239/240	31.46	0.02	50	pCi/g	confirmation
P9	CO38-037	749013.292	2085634.265	3.21	3.51	Uranium-234	4.10	2.64	300	pCi/g	confirmation
P9	CO38-037	749013.292	2085634.265	3.21	3.51	Uranium-235	0.24	0.12	8	pCi/g	confirmation
P9	CO38-037	749013.292	2085634.265	3.21	3.51	Uranium-238	4.10	1.49	351	pCi/g	confirmation
Q1	CO37-021	748958.98	2085659.259	3.4	3.7	Uranium-234	4.80	2.64	300	pCi/g	biased
Q1	CO37-021	748958.98	2085659.259	3.4	3.7	Uranium-235	0.22	0.12	8	pCi/g	biased
Q1	CO37-021	748958.98	2085659.259	3.4	3.7	Uranium-238	4.80	1.49	351	pCi/g	biased
Q1	CO38-040	748963.98	2085659.259	3.2	3.5	Americium-241	1.43	0.02	76	pCi/g	confirmation
Q1	CO38-040	748963.98	2085659.259	3.2	3.5	Plutonium-239/240	14.76	0.02	50	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
Q1	CO38-040	748963.98	2085659.259	3.2	3.5	Uranium-234	4.66	2.64	300	pCi/g	confirmation
Q1	CO38-040	748963.98	2085659.259	3.2	3.5	Uranium-235	0.20	0.12	8	pCi/g	confirmation
Q1	CO38-040	748963.98	2085659.259	3.2	3.5	Uranium-238	4.66	1.49	351	pCi/g	confirmation
Q2	CO38-041	748988.654	2085659.464	3.3	3.6	Uranium-234	3.53	2.64	300	pCi/g	confirmation
Q2	CO38-041	748988.654	2085659.464	3.3	3.6	Uranium-235	0.19	0.12	8	pCi/g	confirmation
Q2	CO38-041	748988.654	2085659.464	3.3	3.6	Uranium-238	3.53	1.49	351	pCi/g	confirmation
Q3	CO38-042	749013.76	2085659.658	4.9	5.2	Americium-241	3.75	0.02	76	pCi/g	confirmation
Q3	CO38-042	749013.76	2085659.658	4.9	5.2	Plutonium-239/240	33.57	0.02	50	pCi/g	confirmation
Q3	CO38-042	749013.76	2085659.658	4.9	5.2	Uranium-234	3.03	2.64	300	pCi/g	confirmation
Q3	CO38-042	749013.76	2085659.658	4.9	5.2	Uranium-235	0.17	0.12	8	pCi/g	confirmation
Q3	CO38-042	749013.76	2085659.658	4.9	5.2	Uranium-238	3.03	1.49	351	pCi/g	confirmation
Q4	CO38-045	748964.311	2085685.817	2.94	3.24	Americium-241	0.79	0.02	76	pCi/g	confirmation
Q4	CO38-045	748964.311	2085685.817	2.94	3.24	Plutonium-239/240	3.36	0.02	50	pCi/g	confirmation
Q4	CO38-045	748964.311	2085685.817	2.94	3.24	Uranium-234	0.88	2.64	300	pCi/g	confirmation
Q4	CO38-045	748964.311	2085685.817	2.94	3.24	Uranium-238	0.92	1.49	351	pCi/g	confirmation
Q5	CO38-044	748989.077	2085685.927	2.9	3.2	Uranium-234	5.15	2.64	300	pCi/g	confirmation
Q5	CO38-044	748989.077	2085685.927	2.9	3.2	Uranium-235	0.26	0.12	8	pCi/g	confirmation
Q5	CO38-044	748989.077	2085685.927	2.9	3.2	Uranium-238	5.15	1.49	351	pCi/g	confirmation
Q6	CO38-043	749014.052	2085686.021	3.2	3.5	Uranium-234	4.56	2.64	300	pCi/g	confirmation
Q6	CO38-043	749014.052	2085686.021	3.2	3.5	Uranium-235	0.17	0.12	8	pCi/g	confirmation
Q6	CO38-043	749014.052	2085686.021	3.2	3.5	Uranium-238	4.56	1.49	351	pCi/g	confirmation
Q7	CO38-046	748964.61	2085712.486	3.8	4.1	Americium-241	0.98	0.02	76	pCi/g	confirmation
Q7	CO38-046	748964.61	2085712.486	3.8	4.1	Plutonium-239/240	11.14	0.02	50	pCi/g	confirmation
Q7	CO38-046	748964.61	2085712.486	3.8	4.1	Uranium-234	4.61	2.64	300	pCi/g	confirmation
Q7	CO38-046	748964.61	2085712.486	3.8	4.1	Uranium-235	0.22	0.12	8	pCi/g	confirmation
Q7	CO38-046	748964.61	2085712.486	3.8	4.1	Uranium-238	4.61	1.49	351	pCi/g	confirmation
Q8	CO38-047	748989.429	2085712.637	2.85	3.15	Americium-241	4.95	0.02	76	pCi/g	confirmation
Q8	CO38-047	748989.429	2085712.637	2.85	3.15	Plutonium-239/240	43.20	0.02	50	pCi/g	confirmation
Q8	CO38-047	748989.429	2085712.637	2.85	3.15	Uranium-235	0.35	0.12	8	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 – 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
Q9	CO38-048	749014.444	2085712.837	3.325	3.625	Uranium-234	3.07	2.64	300	pCi/g	confirmation
Q9	CO38-048	749014.444	2085712.837	3.325	3.625	Uranium-235	0.19	0.12	8	pCi/g	confirmation
Q9	CO38-048	749014.444	2085712.837	3.325	3.625	Uranium-238	3.07	1.49	351	pCi/g	confirmation
Q9	CO38-054	749009.271	2085704.473	3.33	3.63	Uranium-234	4.60	2.64	300	pCi/g	random
Q9	CO38-054	749009.271	2085704.473	3.33	3.63	Uranium-235	0.19	0.12	8	pCi/g	random
Q9	CO38-054	749009.271	2085704.473	3.33	3.63	Uranium-238	4.60	1.49	351	pCi/g	random
R1	CP38-044	748964.975	2085739.033	3.13	3.63	Americium-241	0.99	0.02	76	pCi/g	confirmation
R1	CP38-044	748964.975	2085739.033	3.13	3.63	Plutonium-239/240	11.20	0.02	50	pCi/g	confirmation
R1	CP38-044	748964.975	2085739.033	3.13	3.63	Uranium-234	5.02	2.64	300	pCi/g	confirmation
R1	CP38-044	748964.975	2085739.033	3.13	3.63	Uranium-235	0.22	0.12	8	pCi/g	confirmation
R1	CP38-044	748964.975	2085739.033	3.13	3.63	Uranium-238	5.02	1.49	351	pCi/g	confirmation
R2	CP38-043	748989.854	2085739.275	2.88	3.18	Americium-241	1.84	0.02	76	pCi/g	confirmation
R2	CP38-043	748989.854	2085739.275	2.88	3.18	Plutonium-239/240	18.12	0.02	50	pCi/g	confirmation
R2	CP38-043	748989.854	2085739.275	2.88	3.18	Uranium-234	3.16	2.64	300	pCi/g	confirmation
R2	CP38-043	748989.854	2085739.275	2.88	3.18	Uranium-235	0.18	0.12	8	pCi/g	confirmation
R2	CP38-043	748989.854	2085739.275	2.88	3.18	Uranium-238	3.16	1.49	351	pCi/g	confirmation
R3	CP38-042	749014.892	2085739.595	3.37	3.67	Americium-241	2.91	0.02	76	pCi/g	confirmation
R3	CP38-042	749014.892	2085739.595	3.37	3.67	Plutonium-239/240	26.75	0.02	50	pCi/g	confirmation
R3	CP38-042	749014.892	2085739.595	3.37	3.67	Uranium-234	4.73	2.64	300	pCi/g	confirmation
R3	CP38-042	749014.892	2085739.595	3.37	3.67	Uranium-235	0.22	0.12	8	pCi/g	confirmation
R3	CP38-042	749014.892	2085739.595	3.37	3.67	Uranium-238	4.73	1.49	351	pCi/g	confirmation
R3	CP38-074	749014.892	2085745.595	3.31	3.61	Uranium-234	4.22	2.64	300	pCi/g	biased
R3	CP38-074	749014.892	2085745.595	3.31	3.61	Uranium-235	0.19	0.12	8	pCi/g	biased
R3	CP38-074	749014.892	2085745.595	3.31	3.61	Uranium-238	4.22	1.49	351	pCi/g	biased
R4	CP38-045	748965.33	2085765.485	5.48	5.78	Americium-241	6.08	0.02	76	pCi/g	confirmation
R4	CP38-045	748965.33	2085765.485	5.48	5.78	Plutonium-239/240	52.39	0.02	50	pCi/g	confirmation
R4	CP38-045	748965.33	2085765.485	5.48	5.78	Uranium-234	2.94	2.64	300	pCi/g	confirmation
R4	CP38-045	748965.33	2085765.485	5.48	5.78	Uranium-235	0.17	0.12	8	pCi/g	confirmation
R4	CP38-045	748965.33	2085765.485	5.48	5.78	Uranium-238	2.94	1.49	351	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
R5	CP38-046	748990.267	2085765.735	4.64	4.94	Uranium-234	3.61	2.64	300	pCi/g	confirmation
R5	CP38-046	748990.267	2085765.735	4.64	4.94	Uranium-235	0.19	0.12	8	pCi/g	confirmation
R5	CP38-046	748990.267	2085765.735	4.64	4.94	Uranium-238	3.61	1.49	351	pCi/g	confirmation
R5	CP38-068	748983.085	2085778.453	4.72	5.02	Uranium-234	4.17	2.64	300	pCi/g	random
R5	CP38-068	748983.085	2085778.453	4.72	5.02	Uranium-235	0.18	0.12	8	pCi/g	random
R5	CP38-068	748983.085	2085778.453	4.72	5.02	Uranium-238	4.17	1.49	351	pCi/g	random
R6	CP38-047	749015.322	2085766.013	3.74	4.04	Uranium-234	4.70	2.64	300	pCi/g	confirmation
R6	CP38-047	749015.322	2085766.013	3.74	4.04	Uranium-235	0.22	0.12	8	pCi/g	confirmation
R6	CP38-047	749015.322	2085766.013	3.74	4.04	Uranium-238	4.70	1.49	351	pCi/g	confirmation
R7	CP38-050	748965.67	2085792.059	2.62	2.92	Americium-241	0.59	0.02	76	pCi/g	confirmation
R7	CP38-050	748965.67	2085792.059	2.62	2.92	Plutonium-239/240	8.03	0.02	50	pCi/g	confirmation
R7	CP38-050	748965.67	2085792.059	2.62	2.92	Uranium-234	2.88	2.64	300	pCi/g	confirmation
R7	CP38-050	748965.67	2085792.059	2.62	2.92	Uranium-235	0.16	0.12	8	pCi/g	confirmation
R7	CP38-050	748965.67	2085792.059	2.62	2.92	Uranium-238	2.88	1.49	351	pCi/g	confirmation
R8	CP38-049	748990.664	2085792.29	4.01	4.31	Americium-241	3.12	0.02	76	pCi/g	confirmation
R8	CP38-049	748990.664	2085792.29	4.01	4.31	Plutonium-239/240	17.30	0.02	50	pCi/g	confirmation
R8	CP38-049	748990.664	2085792.29	4.01	4.31	Uranium-234	1.04	2.64	300	pCi/g	confirmation
R8	CP38-049	748990.664	2085792.29	4.01	4.31	Uranium-238	0.98	1.49	351	pCi/g	confirmation
R9	CP38-048	749015.757	2085792.447	2.64	2.94	Americium-241	3.21	0.02	76	pCi/g	confirmation
R9	CP38-048	749015.757	2085792.447	2.64	2.94	Plutonium-239/240	29.21	0.02	50	pCi/g	confirmation
R9	CP38-048	749015.757	2085792.447	2.64	2.94	Uranium-234	2.63	2.64	300	pCi/g	confirmation
R9	CP38-048	749015.757	2085792.447	2.64	2.94	Uranium-238	2.63	1.49	351	pCi/g	confirmation
S1	CP38-051	748965.997	2085818.523	3.93	4.23	Uranium-234	4.59	2.64	300	pCi/g	confirmation
S1	CP38-051	748965.997	2085818.523	3.93	4.23	Uranium-235	0.22	0.12	8	pCi/g	confirmation
S1	CP38-051	748965.997	2085818.523	3.93	4.23	Uranium-238	4.59	1.49	351	pCi/g	confirmation
S2	CP38-052	748991.049	2085818.766	3.2	3.5	Americium-241	4.31	0.02	76	pCi/g	confirmation
S2	CP38-052	748991.049	2085818.766	3.2	3.5	Plutonium-239/240	38.04	0.02	50	pCi/g	confirmation
S2	CP38-052	748991.049	2085818.766	3.2	3.5	Uranium-234	2.43	2.64	300	pCi/g	confirmation
S2	CP38-052	748991.049	2085818.766	3.2	3.5	Uranium-235	0.17	0.12	8	pCi/g	confirmation



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Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
S2	CP38-052	748991.049	2085818.766	3.2	3.5	Uranium-238	2.43	1.49	351	pCi/g	confirmation
S2	CP38-069	748979.54	2085808.266	3.66	3.96	Uranium-234	4.49	2.64	300	pCi/g	random
S2	CP38-069	748979.54	2085808.266	3.66	3.96	Uranium-235	0.21	0.12	8	pCi/g	random
S2	CP38-069	748979.54	2085808.266	3.66	3.96	Uranium-238	4.49	1.49	351	pCi/g	random
S3	CP38-053	749016.028	2085819.007	3.29	3.59	Americium-241	6.05	0.02	76	pCi/g	confirmation
S3	CP38-053	749016.028	2085819.007	3.29	3.59	Plutonium-239/240	52.11	0.02	50	pCi/g	confirmation
S3	CP38-053	749016.028	2085819.007	3.29	3.59	Uranium-234	4.19	2.64	300	pCi/g	confirmation
S3	CP38-053	749016.028	2085819.007	3.29	3.59	Uranium-235	0.18	0.12	8	pCi/g	confirmation
S3	CP38-053	749016.028	2085819.007	3.29	3.59	Uranium-238	4.19	1.49	351	pCi/g	confirmation
S3	CP38-073	749010.028	2085825.007	3.58	3.88	Uranium-234	3.32	2.64	300	pCi/g	biased
S3	CP38-073	749010.028	2085825.007	3.58	3.88	Uranium-235	0.16	0.12	8	pCi/g	biased
S3	CP38-073	749010.028	2085825.007	3.58	3.88	Uranium-238	3.32	1.49	351	pCi/g	biased
S4	CP38-056	748966.352	2085844.971	3.4	3.7	Uranium-234	3.26	2.64	300	pCi/g	confirmation
S4	CP38-056	748966.352	2085844.971	3.4	3.7	Uranium-235	0.15	0.12	8	pCi/g	confirmation
S4	CP38-056	748966.352	2085844.971	3.4	3.7	Uranium-238	3.26	1.49	351	pCi/g	confirmation
S5	CP38-055	748991.463	2085845.223	2.84	3.14	Americium-241	1.39	0.02	76	pCi/g	confirmation
S5	CP38-055	748991.463	2085845.223	2.84	3.14	Plutonium-239/240	7.19	0.02	50	pCi/g	confirmation
S5	CP38-055	748991.463	2085845.223	2.84	3.14	Uranium-234	0.45	2.64	300	pCi/g	confirmation
S5	CP38-055	748991.463	2085845.223	2.84	3.14	Uranium-238	0.67	1.49	351	pCi/g	confirmation
S6	CP38-054	749016.422	2085845.472	3.2	3.5	Americium-241	4.34	0.02	76	pCi/g	confirmation
S6	CP38-054	749016.422	2085845.472	3.2	3.5	Plutonium-239/240	38.28	0.02	50	pCi/g	confirmation
S6	CP38-054	749016.422	2085845.472	3.2	3.5	Uranium-234	3.00	2.64	300	pCi/g	confirmation
S6	CP38-054	749016.422	2085845.472	3.2	3.5	Uranium-235	0.16	0.12	8	pCi/g	confirmation
S6	CP38-054	749016.422	2085845.472	3.2	3.5	Uranium-238	3.00	1.49	351	pCi/g	confirmation
S7	CP38-057	748966.683	2085871.459	1.81	2.31	Uranium-234	3.35	2.64	300	pCi/g	confirmation
S7	CP38-057	748966.683	2085871.459	1.81	2.31	Uranium-238	3.35	1.49	351	pCi/g	confirmation
S8	CP38-058	748991.851	2085871.707	2.38	2.68	Americium-241	2.49	0.02	76	pCi/g	confirmation
S8	CP38-058	748991.851	2085871.707	2.38	2.68	Plutonium-239/240	23.34	0.02	50	pCi/g	confirmation
S8	CP38-058	748991.851	2085871.707	2.38	2.68	Uranium-234	4.65	2.64	300	pCi/g	confirmation

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Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
S8	CP38-058	748991.851	2085871.707	2.38	2.68	Uranium-235	0.12	0.12	8	pCi/g	confirmation
S8	CP38-058	748991.851	2085871.707	2.38	2.68	Uranium-238	4.65	1.49	351	pCi/g	confirmation
S9	CP38-059	749016.793	2085871.952	2.33	2.73	Americium-241	1.49	0.02	76	pCi/g	confirmation
S9	CP38-059	749016.793	2085871.952	2.33	2.73	Plutonium-239/240	15.25	0.02	50	pCi/g	confirmation
S9	CP38-059	749016.793	2085871.952	2.33	2.73	Uranium-234	2.86	2.64	300	pCi/g	confirmation
S9	CP38-059	749016.793	2085871.952	2.33	2.73	Uranium-235	0.23	0.12	8	pCi/g	confirmation
S9	CP38-059	749016.793	2085871.952	2.33	2.73	Uranium-238	2.86	1.49	351	pCi/g	confirmation
T1	CP38-065	748967.084	2085897.231	4.13	4.43	Americium-241	1.96	0.02	76	pCi/g	confirmation
T1	CP38-065	748967.084	2085897.231	4.13	4.43	Plutonium-239/240	19.11	0.02	50	pCi/g	confirmation
T1	CP38-065	748967.084	2085897.231	4.13	4.43	Uranium-234	4.21	2.64	300	pCi/g	confirmation
T1	CP38-065	748967.084	2085897.231	4.13	4.43	Uranium-235	0.19	0.12	8	pCi/g	confirmation
T1	CP38-065	748967.084	2085897.231	4.13	4.43	Uranium-238	4.21	1.49	351	pCi/g	confirmation
T2	CP38-064	748992.307	2085897.355	5.04	5.34	Americium-241	0.75	0.02	76	pCi/g	confirmation
T2	CP38-064	748992.307	2085897.355	5.04	5.34	Plutonium-239/240	9.28	0.02	50	pCi/g	confirmation
T2	CP38-064	748992.307	2085897.355	5.04	5.34	Uranium-234	3.44	2.64	300	pCi/g	confirmation
T2	CP38-064	748992.307	2085897.355	5.04	5.34	Uranium-235	0.32	0.12	8	pCi/g	confirmation
T2	CP38-064	748992.307	2085897.355	5.04	5.34	Uranium-238	3.44	1.49	351	pCi/g	confirmation
T2	CP38-070	748982.449	2085902.266	4.94	5.24	Uranium-234	4.04	2.64	300	pCi/g	random
T2	CP38-070	748982.449	2085902.266	4.94	5.24	Uranium-235	0.21	0.12	8	pCi/g	random
T2	CP38-070	748982.449	2085902.266	4.94	5.24	Uranium-238	4.04	1.49	351	pCi/g	random
T3	CP38-063	749017.224	2085897.478	4.3	4.6	Americium-241	0.77	0.02	76	pCi/g	confirmation
T3	CP38-063	749017.224	2085897.478	4.3	4.6	Plutonium-239/240	9.47	0.02	50	pCi/g	confirmation
T3	CP38-063	749017.224	2085897.478	4.3	4.6	Uranium-234	4.27	2.64	300	pCi/g	confirmation
T3	CP38-063	749017.224	2085897.478	4.3	4.6	Uranium-235	0.20	0.12	8	pCi/g	confirmation
T3	CP38-063	749017.224	2085897.478	4.3	4.6	Uranium-238	4.27	1.49	351	pCi/g	confirmation
T4	CP38-062	748967.351	2085923.125	1.0	1.3	Americium-241	2.45	0.02	76	pCi/g	confirmation
T4	CP38-062	748967.351	2085923.125	1.0	1.3	Plutonium-239/240	23.06	0.02	50	pCi/g	confirmation
T4	CP38-062	748967.351	2085923.125	1.0	1.3	Uranium-234	2.44	2.64	300	pCi/g	confirmation
T4	CP38-062	748967.351	2085923.125	1.0	1.3	Uranium-238	2.44	1.49	351	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
T5	CP38-061	748992.628	2085923.11	3.29	3.79	Americium-241	9.22	0.02	76	pCi/g	confirmation
T5	CP38-061	748992.628	2085923.11	3.29	3.79	Plutonium-239/240	71.30	0.02	50	pCi/g	confirmation
T5	CP38-061	748992.628	2085923.11	3.29	3.79	Uranium-234	0.63	2.64	300	pCi/g	confirmation
T5	CP38-061	748992.628	2085923.11	3.29	3.79	Uranium-238	0.44	1.49	351	pCi/g	confirmation
T6	CP38-060	749017.53	2085923.094	3.98	4.28	Uranium-234	3.74	2.64	300	pCi/g	confirmation
T6	CP38-060	749017.53	2085923.094	3.98	4.28	Uranium-235	0.24	0.12	8	pCi/g	confirmation
T6	CP38-060	749017.53	2085923.094	3.98	4.28	Uranium-238	3.74	1.49	351	pCi/g	confirmation
T6	CP38-072	749026.53	2085914.094	4.6	5.1	Americium-241	3.82	0.02	76	pCi/g	biased
T6	CP38-072	749026.53	2085914.094	4.6	5.1	Plutonium-239/240	34.13	0.02	50	pCi/g	biased
T6	CP38-072	749026.53	2085914.094	4.6	5.1	Uranium-235	0.22	0.12	8	pCi/g	biased
T7	CQ38-005	748967.669	2085947.864	2.64	2.94	Uranium-234	3.97	2.64	300	pCi/g	confirmation
T7	CQ38-005	748967.669	2085947.864	2.64	2.94	Uranium-238	3.97	1.49	351	pCi/g	confirmation
T8	CQ38-006	748993	2085947.843	4.2	4.5	Uranium-234	3.87	2.64	300	pCi/g	confirmation
T8	CQ38-006	748993	2085947.843	4.2	4.5	Uranium-235	0.16	0.12	8	pCi/g	confirmation
T8	CQ38-006	748993	2085947.843	4.2	4.5	Uranium-238	3.87	1.49	351	pCi/g	confirmation
T9	CQ38-007	749017.884	2085947.822	3.7	4.21	Americium-241	3.02	0.02	76	pCi/g	confirmation
T9	CQ38-007	749017.884	2085947.822	3.7	4.21	Plutonium-239/240	27.67	0.02	50	pCi/g	confirmation
T9	CQ38-007	749017.884	2085947.822	3.7	4.21	Uranium-234	3.67	2.64	300	pCi/g	confirmation
T9	CQ38-007	749017.884	2085947.822	3.7	4.21	Uranium-235	0.21	0.12	8	pCi/g	confirmation
T9	CQ38-007	749017.884	2085947.822	3.7	4.21	Uranium-238	3.67	1.49	351	pCi/g	confirmation
U1	CO37-000	748891.462	2085582.747	2.26	2.56	Uranium-234	3.78	2.64	300	pCi/g	confirmation
U1	CO37-000	748891.462	2085582.747	2.26	2.56	Uranium-235	0.19	0.12	8	pCi/g	confirmation
U1	CO37-000	748891.462	2085582.747	2.26	2.56	Uranium-238	3.78	1.49	351	pCi/g	confirmation
U2	CO37-001	748914.243	2085582.762	2.16	2.46	Americium-241	0.56	0.02	76	pCi/g	confirmation
U2	CO37-001	748914.243	2085582.762	2.16	2.46	Plutonium-239/240	7.77	0.02	50	pCi/g	confirmation
U2	CO37-001	748914.243	2085582.762	2.16	2.46	Uranium-234	3.56	2.64	300	pCi/g	confirmation
U2	CO37-001	748914.243	2085582.762	2.16	2.46	Uranium-235	0.21	0.12	8	pCi/g	confirmation
U2	CO37-001	748914.243	2085582.762	2.16	2.46	Uranium-238	3.56	1.49	351	pCi/g	confirmation
U3	CO37-002	748938.798	2085582.774	2.29	2.39	Uranium-234	5.54	2.64	300	pCi/g	confirmation

## Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
U3	CO37-002	748938.798	2085582.774	2.29	2.39	Uranium-235	0.25	0.12	8	pCi/g	confirmation
U3	CO37-002	748938.798	2085582.774	2.29	2.39	Uranium-238	5.54	1.49	351	pCi/g	confirmation
U4	CO37-003	748891.585	2085608.887	1.86	2.06	Uranium-234	1.25	2.64	300	pCi/g	confirmation
U4	CO37-003	748891.585	2085608.887	1.86	2.06	Uranium-238	1.25	1.49	351	pCi/g	confirmation
U5	CO37-005	748914.408	2085608.876	3.01	3.31	Uranium-234	3.10	2.64	300	pCi/g	confirmation
U5	CO37-005	748914.408	2085608.876	3.01	3.31	Uranium-238	3.10	1.49	351	pCi/g	confirmation
U6	CO37-006	748939.031	2085608.869	2.9	3.2	Americium-241	0.22	0.02	76	pCi/g	confirmation
U6	CO37-006	748939.031	2085608.869	2.9	3.2	Plutonium-239/240	5.02	0.02	50	pCi/g	confirmation
U6	CO37-006	748939.031	2085608.869	2.9	3.2	Uranium-234	1.08	2.64	300	pCi/g	confirmation
U6	CO37-006	748939.031	2085608.869	2.9	3.2	Uranium-238	1.08	1.49	351	pCi/g	confirmation
U7	CO37-004	748891.646	2085633.795	2.43	2.73	Americium-241	1.81	0.02	76	pCi/g	confirmation
U7	CO37-004	748891.646	2085633.795	2.43	2.73	Plutonium-239/240	17.85	0.02	50	pCi/g	confirmation
U7	CO37-004	748891.646	2085633.795	2.43	2.73	Uranium-234	1.40	2.64	300	pCi/g	confirmation
U7	CO37-004	748891.646	2085633.795	2.43	2.73	Uranium-235	0.22	0.12	8	pCi/g	confirmation
U7	CO37-004	748891.646	2085633.795	2.43	2.73	Uranium-238	1.40	1.49	351	pCi/g	confirmation
U8	CO37-008	748914.346	2085633.89	3.08	3.38	Americium-241	1.34	0.02	76	pCi/g	confirmation
U8	CO37-008	748914.346	2085633.89	3.08	3.38	Plutonium-239/240	5.83	0.02	50	pCi/g	confirmation
U8	CO37-008	748914.346	2085633.89	3.08	3.38	Uranium-234	0.54	2.64	300	pCi/g	confirmation
U8	CO37-008	748914.346	2085633.89	3.08	3.38	Uranium-238	0.40	1.49	351	pCi/g	confirmation
V1	CO37-009	748891.825	2085658.886	2.82	3.02	Americium-241	0.88	0.02	76	pCi/g	confirmation
V1	CO37-009	748891.825	2085658.886	2.82	3.02	Plutonium-239/240	10.36	0.02	50	pCi/g	confirmation
V1	CO37-009	748891.825	2085658.886	2.82	3.02	Uranium-234	3.22	2.64	300	pCi/g	confirmation
V1	CO37-009	748891.825	2085658.886	2.82	3.02	Uranium-235	0.19	0.12	8	pCi/g	confirmation
V1	CO37-009	748891.825	2085658.886	2.82	3.02	Uranium-238	3.22	1.49	351	pCi/g	confirmation
V2	CO37-012	748914.486	2085658.929	3.12	3.42	Americium-241	2.41	0.02	76	pCi/g	confirmation
V2	CO37-012	748914.486	2085658.929	3.12	3.42	Plutonium-239/240	22.69	0.02	50	pCi/g	confirmation
V2	CO37-012	748914.486	2085658.929	3.12	3.42	Uranium-234	1.54	2.64	300	pCi/g	confirmation
V2	CO37-012	748914.486	2085658.929	3.12	3.42	Uranium-238	1.54	1.49	351	pCi/g	confirmation
V3	CO37-013	748939.454	2085659.238	3.32	3.62	Americium-241	0.48	0.02	76	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
V3	CO37-013	748939.454	2085659.238	3.32	3.62	Plutonium-239/240	7.12	0.02	50	pCi/g	confirmation
V3	CO37-013	748939.454	2085659.238	3.32	3.62	Uranium-234	1.40	2.64	300	pCi/g	confirmation
V3	CO37-013	748939.454	2085659.238	3.32	3.62	Uranium-238	1.40	1.49	351	pCi/g	confirmation
V4	CO37-010	748891.931	2085685.604	2.02	2.22	Americium-241	0.93	0.02	76	pCi/g	confirmation
V4	CO37-010	748891.931	2085685.604	2.02	2.22	Plutonium-239/240	10.79	0.02	50	pCi/g	confirmation
V4	CO37-010	748891.931	2085685.604	2.02	2.22	Uranium-235	0.16	0.12	8	pCi/g	confirmation
V5	CO37-015	748914.713	2085685.664	2.5	2.7	Americium-241	1.32	0.02	76	pCi/g	confirmation
V5	CO37-015	748914.713	2085685.664	2.5	2.7	Plutonium-239/240	13.89	0.02	50	pCi/g	confirmation
V5	CO37-015	748914.713	2085685.664	2.5	2.7	Uranium-234	1.32	2.64	300	pCi/g	confirmation
V5	CO37-015	748914.713	2085685.664	2.5	2.7	Uranium-238	1.32	1.49	351	pCi/g	confirmation
V6	CO37-014	748939.706	2085685.729	3.72	3.92	Plutonium-239/240	0.49	0.02	50	pCi/g	confirmation
V6	CO37-014	748939.706	2085685.729	3.72	3.92	Uranium-238	0.28	1.49	351	pCi/g	confirmation
V7	CO37-011	748892.019	2085712.132	3.0	3.3	Americium-241	0.33	0.02	76	pCi/g	confirmation
V7	CO37-011	748892.019	2085712.132	3.0	3.3	Plutonium-239/240	5.94	0.02	50	pCi/g	confirmation
V7	CO37-011	748892.019	2085712.132	3.0	3.3	Uranium-234	1.45	2.64	300	pCi/g	confirmation
V7	CO37-011	748892.019	2085712.132	3.0	3.3	Uranium-235	0.15	0.12	8	pCi/g	confirmation
V7	CO37-011	748892.019	2085712.132	3.0	3.3	Uranium-238	1.45	1.49	351	pCi/g	confirmation
V8	CO37-016	748914.834	2085712.264	3.48	3.68	Americium-241	3.86	0.02	76	pCi/g	confirmation
V8	CO37-016	748914.834	2085712.264	3.48	3.68	Plutonium-239/240	34.41	0.02	50	pCi/g	confirmation
V9	CO37-017	748939.893	2085712.35	3.56	3.76	Americium-241	1.38	0.02	76	pCi/g	confirmation
V9	CO37-017	748939.893	2085712.35	3.56	3.76	Plutonium-239/240	14.36	0.02	50	pCi/g	confirmation
V9	CO37-017	748939.893	2085712.35	3.56	3.76	Uranium-234	1.39	2.64	300	pCi/g	confirmation
V9	CO37-017	748939.893	2085712.35	3.56	3.76	Uranium-235	0.13	0.12	8	pCi/g	confirmation
V9	CO37-017	748939.893	2085712.35	3.56	3.76	Uranium-238	1.39	1.49	351	pCi/g	confirmation
W1	CP37-001	748892.154	2085738.41	2.6	2.9	Uranium-235	0.17	0.12	8	pCi/g	confirmation
W2	CP37-005	748915.025	2085738.597	3.75	3.95	Uranium-235	0.16	0.12	8	pCi/g	confirmation
W3	CP37-004	748940.148	2085738.806	3.8	4.0	Plutonium-239/240	0.24	0.02	50	pCi/g	confirmation
W3	CP37-004	748940.148	2085738.806	3.8	4.0	Uranium-234	0.46	2.64	300	pCi/g	confirmation
W3	CP37-004	748940.148	2085738.806	3.8	4.0	Uranium-238	0.52	1.49	351	pCi/g	confirmation

Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW-AL	Unit	Type
W4	CP37-002	748892.282	2085764.84	2.25	2.55	Uranium-234	1.36	2.64	300	pCi/g	confirmation
W4	CP37-002	748892.282	2085764.84	2.25	2.55	Uranium-235	0.16	0.12	8	pCi/g	confirmation
W4	CP37-002	748892.282	2085764.84	2.25	2.55	Uranium-238	1.36	1.49	351	pCi/g	confirmation
W5	CP37-006	748915.185	2085765.041	3.22	3.42	Americium-241	2.52	0.02	76	pCi/g	confirmation
W5	CP37-006	748915.185	2085765.041	3.22	3.42	Plutonium-239/240	23.63	0.02	50	pCi/g	confirmation
W6	CP37-007	748940.394	2085765.249	2.7	3.0	Americium-241	1.36	0.02	76	pCi/g	confirmation
W6	CP37-007	748940.394	2085765.249	2.7	3.0	Plutonium-239/240	14.24	0.02	50	pCi/g	confirmation
W6	CP37-007	748940.394	2085765.249	2.7	3.0	Uranium-234	1.62	2.64	300	pCi/g	confirmation
W6	CP37-007	748940.394	2085765.249	2.7	3.0	Uranium-235	0.14	0.12	8	pCi/g	confirmation
W6	CP37-007	748940.394	2085765.249	2.7	3.0	Uranium-238	1.62	1.49	351	pCi/g	confirmation
W7	CP37-003	748892.4	2085791.472	3.1	3.6	Uranium-234	1.32	2.64	300	pCi/g	confirmation
W7	CP37-003	748892.4	2085791.472	3.1	3.6	Uranium-238	1.32	1.49	351	pCi/g	confirmation
W8	CP37-009	748915.334	2085791.654	3.18	3.48	Americium-241	2.54	0.02	76	pCi/g	confirmation
W8	CP37-009	748915.334	2085791.654	3.18	3.48	Plutonium-239/240	23.77	0.02	50	pCi/g	confirmation
W8	CP37-009	748915.334	2085791.654	3.18	3.48	Uranium-234	1.43	2.64	300	pCi/g	confirmation
W8	CP37-009	748915.334	2085791.654	3.18	3.48	Uranium-238	1.43	1.49	351	pCi/g	confirmation
W9	CP37-008	748940.624	2085791.843	3.3	3.8	Americium-241	1.07	0.02	76	pCi/g	confirmation
W9	CP37-008	748940.624	2085791.843	3.3	3.8	Plutonium-239/240	11.87	0.02	50	pCi/g	confirmation
W9	CP37-008	748940.624	2085791.843	3.3	3.8	Uranium-234	1.32	2.64	300	pCi/g	confirmation
W9	CP37-008	748940.624	2085791.843	3.3	3.8	Uranium-235	0.12	0.12	8	pCi/g	confirmation
W9	CP37-008	748940.624	2085791.843	3.3	3.8	Uranium-238	1.32	1.49	351	pCi/g	confirmation
X1	CP37-010	748892.51	2085817.897	2.77	2.97	Uranium-234	4.57	2.64	300	pCi/g	confirmation
X1	CP37-010	748892.51	2085817.897	2.77	2.97	Uranium-238	4.57	1.49	351	pCi/g	confirmation
X2	CP37-013	748915.539	2085818.161	3.3	3.5	Americium-241	1.88	0.02	76	pCi/g	confirmation
X2	CP37-013	748915.539	2085818.161	3.3	3.5	Plutonium-239/240	8.30	0.02	50	pCi/g	confirmation
X3	CP37-014	748940.84	2085818.294	3.9	4.1	Uranium-234	1.18	2.64	300	pCi/g	confirmation
X3	CP37-014	748940.84	2085818.294	3.9	4.1	Uranium-238	1.18	1.49	351	pCi/g	confirmation
X5	CP37-016	748915.771	2085844.523	2.54	2.84	Americium-241	0.67	0.02	76	pCi/g	confirmation
X5	CP37-016	748915.771	2085844.523	2.54	2.84	Plutonium-239/240	8.66	0.02	50	pCi/g	confirmation

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Closeout Report for IHSS Group 900-11, IHSS 112 - 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
X6	CP37-015	748941.087	2085844.733	2.88	3.18	Uranium-234	1.25	2.64	300	pCi/g	confirmation
X6	CP37-015	748941.087	2085844.733	2.88	3.18	Uranium-238	1.25	1.49	351	pCi/g	confirmation
X7	CP37-012	748892.751	2085870.818	2.84	3.04	Americium-241	2.18	0.02	76	pCi/g	confirmation
X7	CP37-012	748892.751	2085870.818	2.84	3.04	Plutonium-239/240	20.89	0.02	50	pCi/g	confirmation
X7	CP37-012	748892.751	2085870.818	2.84	3.04	Uranium-235	0.24	0.12	8	pCi/g	confirmation
X8	CP37-017	748915.881	2085870.984	3.51	3.71	Americium-241	0.82	0.02	76	pCi/g	confirmation
X8	CP37-017	748915.881	2085870.984	3.51	3.71	Plutonium-239/240	9.87	0.02	50	pCi/g	confirmation
X8	CP37-017	748915.881	2085870.984	3.51	3.71	Uranium-234	3.98	2.64	300	pCi/g	confirmation
X8	CP37-017	748915.881	2085870.984	3.51	3.71	Uranium-235	0.36	0.12	8	pCi/g	confirmation
X8	CP37-017	748915.881	2085870.984	3.51	3.71	Uranium-238	3.98	1.49	351	pCi/g	confirmation
X9	CP37-018	748941.308	2085871.225	3.51	3.71	Americium-241	1.64	0.02	76	pCi/g	confirmation
X9	CP37-018	748941.308	2085871.225	3.51	3.71	Plutonium-239/240	16.47	0.02	50	pCi/g	confirmation
X9	CP37-018	748941.308	2085871.225	3.51	3.71	Uranium-234	4.52	2.64	300	pCi/g	confirmation
X9	CP37-018	748941.308	2085871.225	3.51	3.71	Uranium-235	0.20	0.12	8	pCi/g	confirmation
X9	CP37-018	748941.308	2085871.225	3.51	3.71	Uranium-238	4.52	1.49	351	pCi/g	confirmation
Y1	CP37-019	748892.915	2085896.992	1.92	2.12	Americium-241	2.20	0.02	76	pCi/g	confirmation
Y1	CP37-019	748892.915	2085896.992	1.92	2.12	Plutonium-239/240	20.98	0.02	50	pCi/g	confirmation
Y1	CP37-019	748892.915	2085896.992	1.92	2.12	Uranium-235	0.14	0.12	8	pCi/g	confirmation
Y2	CP37-024	748916.04	2085897.053	1.65	1.85	Americium-241	0.81	0.02	76	pCi/g	confirmation
Y2	CP37-024	748916.04	2085897.053	1.65	1.85	Plutonium-239/240	9.75	0.02	50	pCi/g	confirmation
Y2	CP37-024	748916.04	2085897.053	1.65	1.85	Uranium-234	2.93	2.64	300	pCi/g	confirmation
Y2	CP37-024	748916.04	2085897.053	1.65	1.85	Uranium-235	0.34	0.12	8	pCi/g	confirmation
Y2	CP37-024	748916.04	2085897.053	1.65	1.85	Uranium-238	2.93	1.49	351	pCi/g	confirmation
Y4	CP37-020	748892.989	2085923.257	2.4	2.7	Americium-241	0.66	0.02	76	pCi/g	confirmation
Y4	CP37-020	748892.989	2085923.257	2.4	2.7	Plutonium-239/240	8.59	0.02	50	pCi/g	confirmation
Y4	CP37-020	748892.989	2085923.257	2.4	2.7	Uranium-234	1.57	2.64	300	pCi/g	confirmation
Y4	CP37-020	748892.989	2085923.257	2.4	2.7	Uranium-235	0.15	0.12	8	pCi/g	confirmation
Y4	CP37-020	748892.989	2085923.257	2.4	2.7	Uranium-238	1.57	1.49	351	pCi/g	confirmation
Y5	CP37-022	748916.097	2085923.211	3.0	3.3	Americium-241	2.18	0.02	76	pCi/g	confirmation

## Closeout Report for IHSS Group 900-11, IHSS 112 – 903 Pad

Cell	Location Code	Northing	Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Background	WRW AL	Unit	Type
Y5	CP37-022	748916.097	2085923.211	3.0	3.3	Plutonium-239/240	20.87	0.02	50	pCi/g	confirmation
Y5	CP37-022	748916.097	2085923.211	3.0	3.3	Uranium-234	1.63	2.64	300	pCi/g	confirmation
Y5	CP37-022	748916.097	2085923.211	3.0	3.3	Uranium-235	0.13	0.12	8	pCi/g	confirmation
Y5	CP37-022	748916.097	2085923.211	3.0	3.3	Uranium-238	1.63	1.49	351	pCi/g	confirmation
Y6	CP37-021	748941.764	2085923.156	2.8	3.1	Americium-241	2.10	0.02	76	pCi/g	confirmation
Y6	CP37-021	748941.764	2085923.156	2.8	3.1	Plutonium-239/240	4.46	0.02	50	pCi/g	confirmation
Y6	CP37-021	748941.764	2085923.156	2.8	3.1	Uranium-234	0.53	2.64	300	pCi/g	confirmation
Y6	CP37-021	748941.764	2085923.156	2.8	3.1	Uranium-238	0.56	1.49	351	pCi/g	confirmation
Y7	CQ37-000	748893.1	2085947.989	2.13	2.43	Americium-241	0.98	0.02	76	pCi/g	confirmation
Y7	CQ37-000	748893.1	2085947.989	2.13	2.43	Plutonium-239/240	11.15	0.02	50	pCi/g	confirmation
Y7	CQ37-000	748893.1	2085947.989	2.13	2.43	Uranium-234	1.35	2.64	300	pCi/g	confirmation
Y7	CQ37-000	748893.1	2085947.989	2.13	2.43	Uranium-235	0.14	0.12	8	pCi/g	confirmation
Y7	CQ37-000	748893.1	2085947.989	2.13	2.43	Uranium-238	1.35	1.49	351	pCi/g	confirmation
Y8	CQ37-001	748916.232	2085947.946	2.03	2.33	Americium-241	1.44	0.02	76	pCi/g	confirmation
Y8	CQ37-001	748916.232	2085947.946	2.03	2.33	Plutonium-239/240	14.88	0.02	50	pCi/g	confirmation
Y8	CQ37-001	748916.232	2085947.946	2.03	2.33	Uranium-235	0.16	0.12	8	pCi/g	confirmation
Y9	CQ37-002	748941.979	2085947.896	2.5	2.8	Americium-241	2.56	0.02	76	pCi/g	confirmation
Y9	CQ37-002	748941.979	2085947.896	2.5	2.8	Plutonium-239/240	23.91	0.02	50	pCi/g	confirmation
Y9	CQ37-002	748941.979	2085947.896	2.5	2.8	Uranium-234	1.51	2.64	300	pCi/g	confirmation
Y9	CQ37-002	748941.979	2085947.896	2.5	2.8	Uranium-235	0.17	0.12	8	pCi/g	confirmation
Y9	CQ37-002	748941.979	2085947.896	2.5	2.8	Uranium-238	1.51	1.49	351	pCi/g	confirmation

\*The sampling location number "Cell K2" was used instead of the standard sampling location number to distinguish this cell from the others because it was addressed as part of the 903 Lip Area.



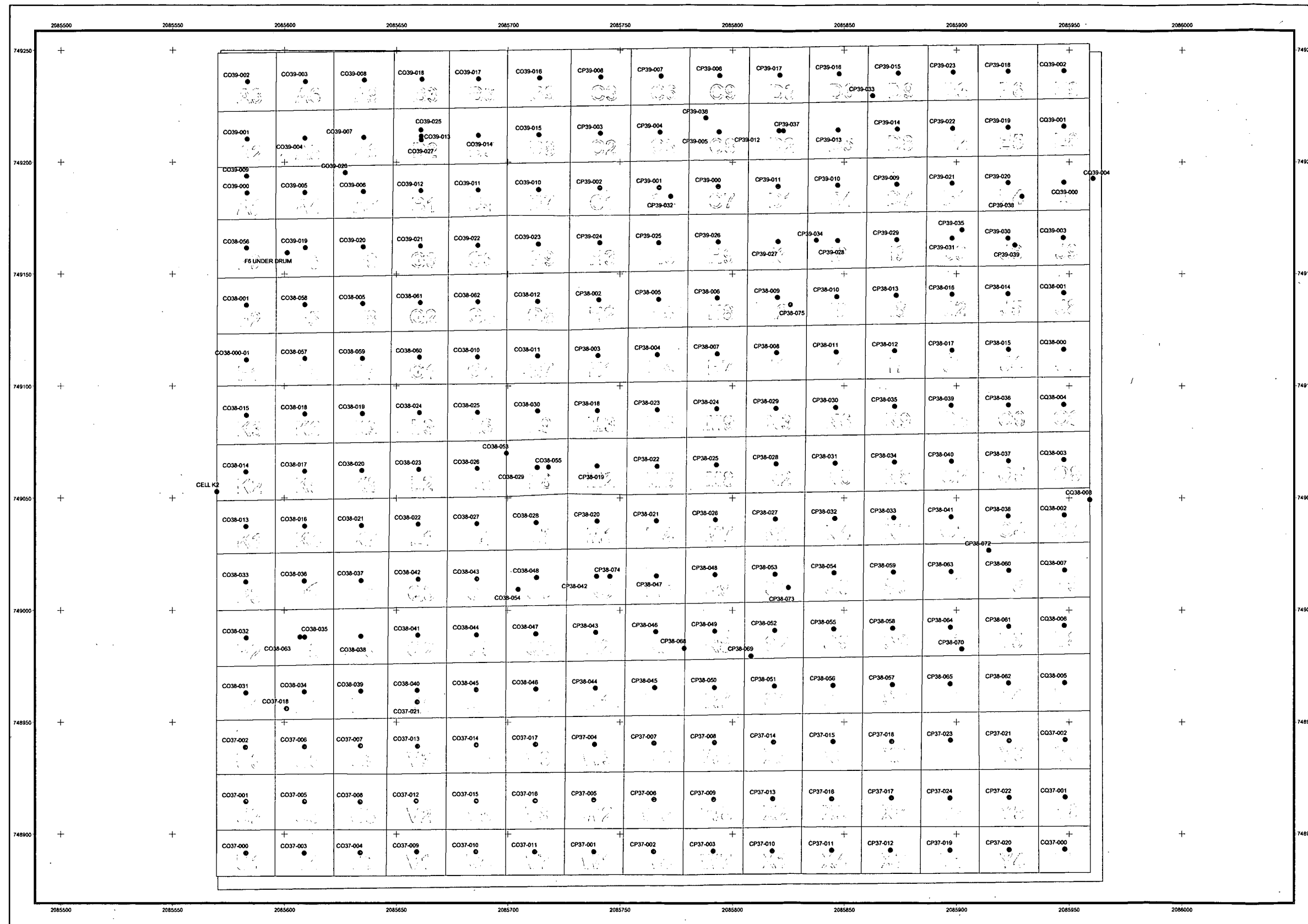
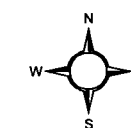


Figure 3  
IHSS 112, 903 Pad  
Confirmation Sampling Locations

KEY

- Sampling locations
- 903 Pad grid
- IHSS 112, 903 Pad



Scale = 1: 275

40 0 40 Feet

State Plane Coordinate Projection  
Colorado Central Zone  
Datum: NAD 27

U.S. Department of Energy  
Rocky Flats Environmental Technology Site

Prepared by: Date: 6.30.04

RADMS

Prepared for:



File: W:\Projects\Fy2004\903\_Pad\_Closure\903pad\_close.apr

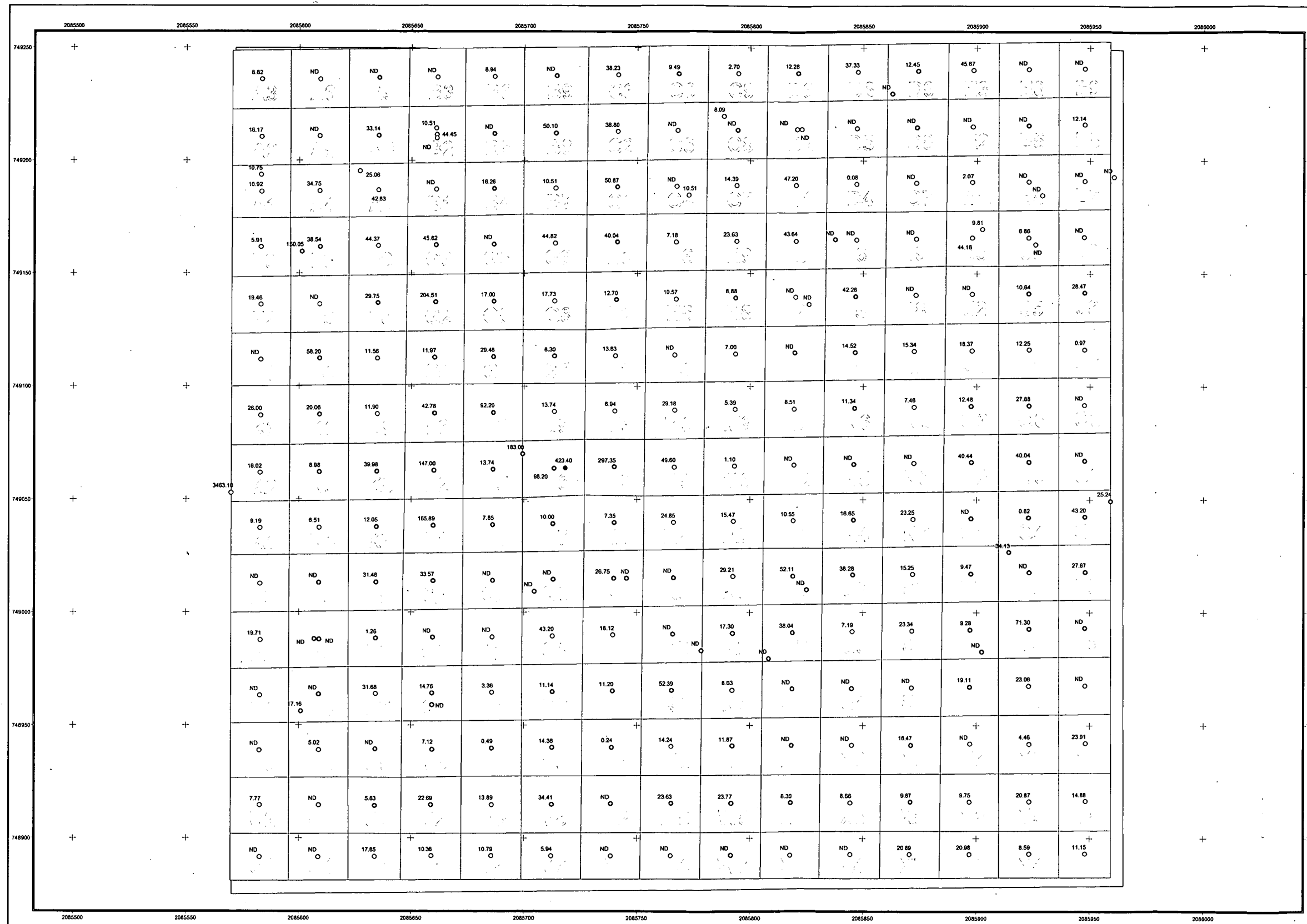


Figure 4  
IHSS 112, 903 Pad  
Plutonium Confirmation  
Sampling Results

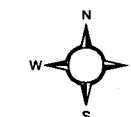
KEY

- Confirmation sample 1 - 3 ft
- Confirmation sample 3 - 5 ft
- Confirmation sample 5 - 7 ft
- Confirmation sample >7 ft

903 Pad grid

IHSS 112, 903 Pad

Plutonium results in pCi/g



Scale = 1: 275

40 0 40 Feet

State Plane Coordinate Projection  
Colorado Central Zone  
Datum: NAD 27

U.S. Department of Energy  
Rocky Flats Environmental Technology Site

Prepared by: Date: 6.30.04

RADMS

Prepared for:



File: W:\Projects\Fy2004\903\_Pad\_Clsout\903pad\_close.apr

#### 4.1 Sums of Ratios and Area of Concern

Based on the WRW ALs, RFCA sums of ratios (SORs) were calculated for the IHSS 112 confirmation, random, and biased sampling locations. SORs are calculated because risks from certain co-located contaminants may be additive. The SOR is used to account for the contribution of each contaminant towards the risk-based limit. Measured contaminant concentrations are compared to WRW ALs by dividing the measured value of each contaminant by its respective AL, then adding the ratios. If the sum of the individual ratios is greater than one, then the limit is exceeded. SORs for the radionuclides of concern (americium-241, plutonium-239/240, and uranium-234, uranium-235, and uranium-238), were calculated for all locations with analytical results greater than background means plus two standard deviations at depths less than 3 ft. Table 5 presents the SORs for radionuclides in soil. With the exception of one location, all SORs for radionuclides in soil from 0 to 3 ft are less than 1.

At sampling location CELL K2 the SOR is 35.494. This sampling location fell outside the western edge of cell K2 and was not excavated. However, it was excavated as part of the Inner Lip remediation accelerated action. Further explanation is provided in Section 6.0.

**Table 5**  
**RFCA SORs Based on Radionuclide Activities**

Cell ID	Location Code	Start Depth (ft)	End Depth (ft)	Surface Soil SOR
A2	CO39-001	2.00	2.30	0.208
A3	CO39-002	2.50	2.90	0.140
A4	CO39-005	2.70	3.00	0.411
A5	CO39-004	2.40	2.70	0.020
A6	CO39-003	2.80	3.00	0.033
A7	CO39-006	2.70	3.00	0.434
A7	CO39-026	2.70	3.00	0.312
B1	CO39-012	2.70	3.00	0.060
B3	CO39-018	2.50	3.00	0.017
B6	CO39-017	2.50	2.80	0.128
B7	CO39-010	2.30	2.60	0.158
C2	CP39-003	2.20	2.40	0.424
C3	CP39-008	2.50	2.70	0.444
C4	CP39-001	2.50	2.80	0.007
C7	CP39-000	2.20	2.50	0.198
D1	CP39-011	2.35	2.65	0.529
D4	CP39-010	2.66	2.96	0.001
D5	CP39-013	2.45	2.85	0.053
D6	CP39-016	2.45	2.85	0.398
D7	CP39-009	2.42	2.72	0.046
E1	CP39-021	2.46	2.49	0.024
E2	CP39-022	2.86	2.94	0.045
E4	CP39-020	2.26	2.56	0.051

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Cell ID	Location Code	Start Depth (ft)	End Depth (ft)	Surface Soil SOR
E4	CP39-038	2.37	2.67	0.017
E6	CP39-018	2.57	2.87	0.052
E7	CQ39-000	1.93	2.23	0.057
E7	CQ39-004	2.10	2.40	0.055
E8	CQ39-001	2.06	2.36	0.159
E9	CQ39-002	2.07	2.37	0.053
F2	CO38-001	2.44	2.64	0.199
F5	CO38-058	2.20	2.50	0.023
F7	CO38-059	2.14	2.34	0.131
H4	CP38-004	1.96	2.26	0.059
H6	CP39-025	2.60	2.80	0.126
H7	CP38-007	2.51	2.81	0.118
H9	CP39-026	2.21	2.51	0.229
I2	CP38-009	2.57	2.87	0.046
I7	CP38-012	1.99	2.29	0.211
I8	CP38-013	2.16	2.46	0.050
I9	CP39-029	2.20	2.50	0.054
J1	CP38-017	2.58	2.88	0.245
J3	CP39-031	2.52	2.82	0.866
J4	CP38-015	2.47	2.77	0.192
J6	CP39-030	2.66	2.96	0.121
J7	CQ38-000	2.26	2.56	0.012
J9	CQ39-003	2.61	2.91	0.059
K1	CO38-013	2.98	3.00	0.095
K2	CELL K2	1.50	1.80	35.494
M6	CP38-023	2.48	2.78	0.294
M7	CP38-026	2.15	2.45	0.153
M9	CP38-024	2.05	2.35	0.066
N1	CP38-027	2.78	2.98	0.103
N3	CP38-029	2.70	2.90	0.099
N9	CP38-035	2.50	2.70	0.076
P2	CO38-032	2.01	2.31	0.231
P3	CO38-033	2.56	2.86	0.058
P7	CO38-039	2.42	2.72	0.370
R7	CP38-050	2.62	2.92	0.115
R9	CP38-048	2.64	2.94	0.302
S7	CP38-057	1.81	2.31	0.021
S8	CP38-058	2.38	2.68	0.263
S9	CP38-059	2.33	2.73	0.197
T4	CP38-062	1.00	1.30	0.238
T7	CQ38-005	2.64	2.94	0.025
U1	CO37-000	2.26	2.56	0.047
U2	CO37-001	2.16	2.46	0.123
U3	CO37-002	2.29	2.39	0.065
U7	CO37-004	2.43	2.73	0.205
V4	CO37-010	2.02	2.22	0.125
V5	CO37-015	2.50	2.70	0.137

Cell ID	Location Code	Start Depth (ft)	End Depth (ft)	Surface Soil SOR
W1	CP37-001	2.60	2.90	0.022
W4	CP37-002	2.25	2.55	0.020
W6	CP37-007	2.70	3.00	0.163
X1	CP37-010	2.77	2.97	0.028
X5	CP37-016	2.54	2.84	0.083
Y1	CP37-019	1.92	2.12	0.228
Y2	CP37-024	1.65	1.85	0.156
Y4	CP37-020	2.40	2.70	0.105
Y7	CQ37-000	2.13	2.43	0.126
Y8	CQ37-001	2.03	2.33	0.167
Y9	CQ37-002	2.50	2.80	0.266

Bold text indicates the SOR is greater than 1.

## 5.0 RCRA UNIT CLOSURE

Not applicable. IHSS 112 is not considered a RCRA Unit because waste storage activities at the 903 Pad ended before RCRA was enacted. IHSS 112 was designated as a Comprehensive Environmental Response and Liability Act (CERCLA) Site.

## 6.0 SUBSURFACE SOIL RISK SCREEN

The SSRS follows the steps identified on Figure 3 in Attachment 5 of the RFCA Modification (DOE et al. 2003). Ecological effects will be further evaluated in the Accelerated Action Ecological Screening Evaluation (AAESE) and the ecological risk assessment portion of the Sitewide CRA.

### Screen 1 – Are the contaminant of concern (COC) concentrations below RFCA Table 3 soil ALs?

No. As shown in Table 4 and on Figure 4, all COC concentrations are below the WRW ALs, with the exception of the “CELL K2” sample and the following samples in Table 6 were collected at depths greater than 3 ft below ground surface (bgs).

Table 6  
Sample Locations at Depths Greater Than 3 feet Below the Surface

Cell ID	Location Code	Analyte	Result (pCi/g)	Depth (ft)	Sample Type
B8	CO39-015	Plutonium-239/240	50.10	5.3 – 5.6	Confirmation
C1	CP39-002	Plutonium-239/240	50.87	3.2 – 3.4	Confirmation
F4	CO38-057	Plutonium-239/240	58.20	4.64 – 4.94	Confirmation
F6	F6 Under Drum	Plutonium-239/240	150.05	6.2 – 6.7	Biased
G2	CO38-061	Plutonium-239/240	204.51	5.08 – 5.28	Confirmation
L1	CO38-022	Plutonium-239/240	165.89	5.19 – 5.39	Confirmation
L2	CO38-023	Plutonium-239/240	147.00	4.72 – 4.92	Confirmation
L5	CO38-053	Plutonium-239/240	183.00	4.5 – 5.0	Random
L6	CO38-025	Plutonium-239/240	92.20	5.1 – 5.4	Confirmation
L8	CO38-029	Plutonium-239/240	98.20	4.5 – 5.1	Confirmation

Cell ID	Location Code	Analyte	Result (pCi/g)	Depth (ft)	Sample Type
L8	CO38-055	Plutonium-239/240	423.40	8.0 – 8.3	Random
R4	CP38-045	Plutonium-239/240	50.39	5.48 – 5.78	Confirmation
S3	CP38-053	Plutonium-239/240	52.11	3.29 – 3.59	Confirmation
M2	CP38-019	Plutonium-239/240	297.35	4.55 – 4.75	Confirmation
T5	CP38-061	Plutonium-239/240	71.30	3.29 – 3.79	Confirmation

The sample "CELL K2" lies just outside the western boundary of cell K2. It has a start depth of 1.5 feet, an end depth of 1.8 feet, and a plutonium-239/240 activity of 3,463.10 pCi/g. This sample was not excavated as part of the 903 Pad accelerated action; however, it was excavated as part of the Inner Lip remediation being performed under BZSAP Addendum #BZ-04-01 as part of its cell A6 excavation (DOE 2003b).

**Screen 2 – Is there a potential for subsurface soil to become surface soil (landslides and erosion areas identified on Figure 1 of the RFCA Modification)?**

No. Figure 5 illustrates that IHSS 112 is not located in an area susceptible to landslides or high erosion (Figure 1; DOE et al. 2003).

**Screen 3 – Does subsurface soil radiological contamination exceed criteria in Section 5.3 and Attachment 14?**

No. As shown in Table 4, radionuclide concentrations are below the 3 nCi/g limit between 3 and 6 feet. Additionally, there are no Original Process Waste Lines (OPWL) located within IHSS 112. Sample CELL K2 was addressed in Screen 1.

**Screen 4 - Is there an environmental pathway and sufficient quantity of COCs that would cause exceedance of surface water standards?**

Migration via erosion and groundwater are the two possible pathways whereby surface water could become contaminated by IHSS 112. As shown on Figure 5, monitoring locations GS39, GS51, GS52, GS53, GS54, and SW055 comprise the 903 Pad and Inner/Outer Lip accelerated action monitoring network (DOE 2003f). Water Year 2002 results indicate that although monitoring data from GS39, GS51, GS52, and SW055 show somewhat higher levels of actinides, analysis indicates that activities associated with the 903 Pad and Lip Area did not result in significant changes in water quality (DOE 2003e). Because radiological contamination in the upper 3 ft of soil was removed to activities below WRW ALs but greater the background means plus two standard deviations, the probability that radionuclides would cause a surface water exceedance has been reduced

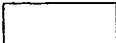
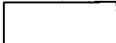




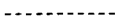
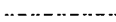
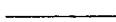
Six groundwater monitoring wells make up the current network of wells used for monitoring the 903 Pad. Wells 4386, 00191, 50099, 90402, 07291, and 90502 encircle the 903 Pad. Their locations are shown on Figure 5.

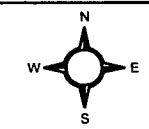
The groundwater contamination at IHSS 112 is considered part of the 903 Pad Plume, which commingles with the East Trenches and Ryan's Pit Plumes. COCs in this plume are primarily volatile organic compounds (VOCs) (DOE 2002c). Groundwater

contamination will be evaluated as part of the groundwater IM/IRA and future Sitewide evaluations.

**Figure 5**  
**Areas Susceptible to Landslides**  
**and**  
**High Erosion**

**KEY**

-  IHSS 112
-  Landslide/high erosion area
-  Groundwater monitoring well
-  Demolished structure
-  Standing structure
-  Paved area
-  Dirt road
-  Fence
-  Contour interval (5ft)



200 0 200 Feet

Scale = 1: 2,500

State Plane Coordinate Projection  
 Colorado Central Zone  
 Datum: NAD 27

U.S. Department of Energy  
 Rocky Flats Environmental Technology Site

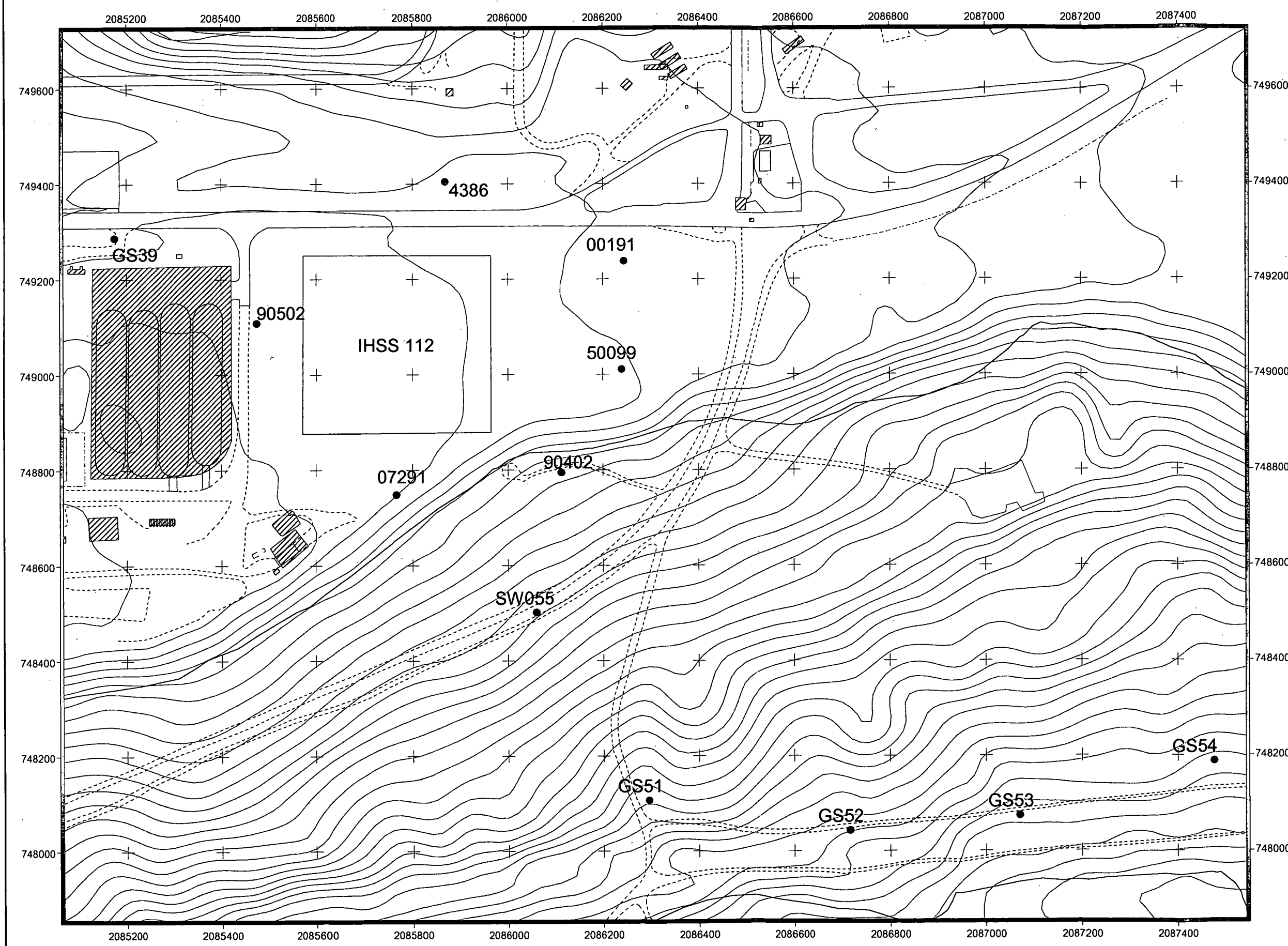
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**RADMS**

Prepared for:



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## **7.0 STEWARDSHIP EVALUATION**

This stewardship evaluation applicable to IHSS 112, a site within IHSS Group 900-11, is documented in the following sections. The regulatory agencies were kept informed through frequent project updates, e-mails, telephone contacts, and personal contacts throughout the duration of the project. Copies of the applicable and pertinent correspondence are in Appendix B.

### **7.1 Current Site Conditions**

As discussed in Section 3.0, accelerated action at IHSS 112 consisted of the following activities:

- Remove asphalt and dispose of as LLW;
- Remove fill and dispose of, as appropriate, pending waste characterization;
- Remove the top 1 ft of native soil at the 903 Pad and additional soil as necessary to remove all soil with contaminant concentrations greater than RFCA WRW ALs within 3 ft of the surface, and as indicated by the stewardship evaluations and dispose of, as appropriate, pending waste characterization;
- Evaluate remaining soil for additional removal through the consultative process using stewardship considerations (Sections 5.4 and 5.5 of the ER RSOP [DOE 2003d]); and
- Backfill with clean soil, regrade, and revegetate.

All of the above actions have been completed.

### **7.2 Near-Term Management Recommendations**

The accelerated action for IHSS 112 met the accelerated action objectives. Contaminant concentrations in soil remaining at IHSS 112 do not warrant any further accelerated action based on RFCA. VOCs at IHSS 112 will be addressed in the Sitewide Groundwater IM/IRA. Near-term recommendations include the following:

- Excavation at the site will continue to be controlled through the Site Soil Disturbance Permit process, and will remain in place pending implementation of any long-term controls (if applicable).
- Access will be restricted to minimize disturbance to newly revegetated areas, if applicable.
- Institutional controls will be implemented to provide site security and limit site access.
- Groundwater and surface water monitoring will continue as part of the Integrated Monitoring Plan (IMP).

### **7.3 Long-Term Stewardship Recommendations**

Based on remaining environmental conditions at IHSS 112, no specific long-term stewardship activities are recommended beyond the generally applicable Site requirements. These requirements may be imposed on this area in the future. Institutional controls that may be used as appropriate for this area include the following:

- Prohibitions on construction of buildings in the BZ;
- Restrictions on excavation or other soil disturbance; and
- Prohibitions on groundwater pumping in the area of IHSS 112. (Potential groundwater contamination in the area of the 903 Pad will be addressed as part of the Sitewide Groundwater IM/IRA.)

No specific engineering controls or IHSS 112-specific environmental monitoring is recommended as a result of the conditions remaining at IHSS 112. Likewise, no specific institutional or physical controls, such as fences, are recommended as a result of the conditions remaining at IHSS 112.

This Closeout Report and associated documentation will be retained as part of the Rocky Flats Administrative Record (AR). The specific long-term stewardship recommendations will also be summarized in the Rocky Flats Long-Term Stewardship Strategy.

IHSS Group 900-11 will be further evaluated as part of the Sitewide CRA, which is part of the RI and Feasibility Study (FS) that will be conducted for the Site. The need for and extent of any more general, long-term stewardship activities will also be evaluated in the RI/FS. Institutional controls and other long-term stewardship requirements for Rocky Flats will be contained in the Corrective Action Decision/Record of Decision (CAD/ROD).

### **7.4 Accelerated Action Stewardship**

Stewardship actions that were implemented during the accelerated action included performing air monitoring, surface water monitoring, groundwater monitoring, and posting signs and barriers.

## **8.0 DEVIATIONS FROM THE ER RSOP**

Overall removal methods and objectives did not deviate from ER RSOP Notification #02-09. However, many changes made in conjunction with regulator consultation, as evidenced in Appendix B, were implemented throughout the life cycle of the action. Major changes included those that were a direct result of different and/or changing field conditions, confirmation sampling scheme changes, and the overall complicated nature of implementing ER RSOP Notification #02-09. All changes were made to increase the safety, efficiency, or effectiveness of the action.

The following ER RSOP deviations were implemented:

- The location of each confirmation sample will be determined at the time of sample collection. The locations will be surveyed after excavation activities are complete and prior to backfilling (RCR 11/2/02).
- Propylene Glycol can be used for dust suppression (RCR 12/30/02).
- The decision to backfill several cells was determined through the consultative process (RCR 1/2/03, 2/3/03).
- Implementation of RFCA Modifications for remedial decisions (RCR 4/30/03).
- Confirmation sampling methodology was changed. The new methodology consists of one composite sample collected in each cell consisting of one grab sample in the center of the cell and four other grab samples collected 5 to 10 ft from the center sample. The grab samples are composited and sent for analysis (RCR 6/11/03).
- A composite sample will be collected from the native soil of the last row of cells along the southern edge of the 903 Pad. If the results are less than 50 pCi/g plutonium, no soil removal will occur (RCR 7/15/03).

## 9.0 POST-REMEDIATION CONDITIONS

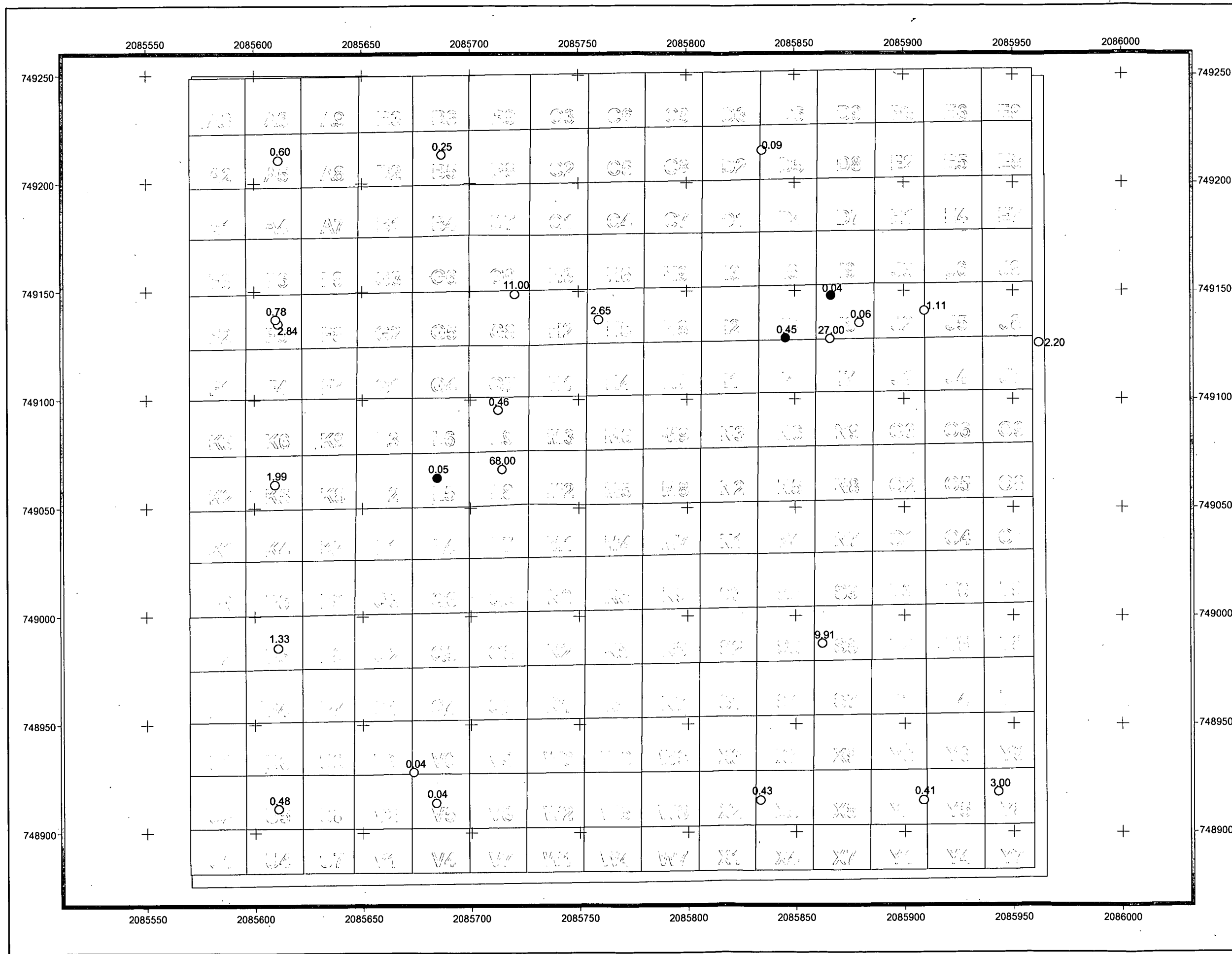
Post-remediation conditions at IHSS 112 are described below.

### 9.1 Residual Contamination

Residual 903 Pad contamination greater than background means plus two standard deviations are shown on Figures 4 and 6.

The following conditions currently exist at IHSS 112:

- All previously existing asphalt and associated fill material have been removed and either disposed of or await disposal.
- Native soil with plutonium-239/240 activities greater than the WRW AL (50 pCi/g) was excavated until a confirmation sample returned a result less than 50 pCi/g or at least 3 ft (from the surface) of material was removed.
- Elevated subsurface soil results from sampling events at depths greater than the excavation remain (Figure 4). The highest activity between 3 and 6 ft, remaining at the 903 Pad is 297.36 pCi/g of plutonium-239/240 in cell M2 at a depth of 4.55 to 4.75 ft. The shallowest AL exceedance is 50.87 pCi/g of plutonium-239/240 in Cell C1 at a depth of 3.2 to 3.4 ft
- All excavated areas were backfilled with clean soil to original grade.



The presence of residual contamination was determined based on preaccelerated action and accelerated action confirmation data. Preaccelerated action characterization data consist of data collected up to and through the 903 Drum Storage Area, 903 Lip Area, and Americium Zone project (DOE 1999b). Residual subsurface soil concentrations greater than background means plus two standard deviations at IHSS 112 are shown on Figure 3 and in Table 4.

SORs, based on the proposed RFCA WRW ALs for radionuclides, are listed in Table 5. All SORs (except for cell K2) for radionuclides at the 903 Pad in soil were less than 1.

## 9.2 IHSS 155 Remediation Support

Portions of IHSS 112 will be used as a support and staging area for the remediation of IHSS 155. This is the driver for altering the plan to revegetate the affected area.

## 10.0 WASTE MANAGEMENT

Waste from the IHSS 112 accelerated action consisted of asphalt, concrete, and soil. All waste was characterized to ensure appropriate disposal. Table 7 contains the breakdown of the waste management information for this project.

**Table 7**  
**IHSS 112 Project Waste Information**

Media	Asphalt	Concrete	Soil
Mass (pounds)	9,647,820	69,100	54,558,979
Volume (cy)	4,467	43	20,213
LLW (cy)	4,467	43	7,298
LLMW (cy)	0	0	12,909
TRM (cy)	0	0	6

## 11.0 SITE RECLAMATION

Approximately 6,857 cy (10,200 tons) of clean ¾-inch aggregate fill material was used to backfill the excavation at the 903 Pad. A xeric grassland seed mix was spread over the site using broadcast seeding methods. Erosion matting was used to conserve moisture and prevent erosion (DOE 2004b).

## 12.0 NO LONGER REPRESENTATIVE SAMPLING LOCATIONS

As a result of this action, multiple samples have been designated as NLR. Any sample representative of either the asphalt that covered the 903 Pad or the fill material underneath the asphalt and overlying the first native soil horizon is NLR, because all of this material was removed.

The native soil horizons were disturbed at varying depths on a cell-by-cell basis; therefore, the samples that are NLR were also determined on a cell-by-cell basis. Table 8 lists the sample cell identification, location code, sample number, start depth, and end depth that correspond to the NLR sample. The samples will be permanently flagged as NLR in the Soil Water Database (SWD), the Site's official repository for environmental data.

**Table 8**  
**NLR Locations**

Cell ID	Location Code	Sample Number	Start Depth (ft)	End Depth (ft)
A5	BH90098	98A1495-001.006	1.00	1.50
B2	CO39-027	03F1052-004	3.00	3.20
B4	CO39-011	03F1115-001	2.90	3.20
B4	CO39-011	03F1258-003	3.50	3.70
B5	BH90198	98A1496-001.006	0.90	1.40
B5	BH90198	98A1496-001.008	1.40	1.90
B5	BH90198	98A1496-001.010	1.90	2.40
B5	BH90198	98A1496-001.012	2.40	2.90
B8	CO39-015	03F1139-002	2.60	2.90
B8	CO39-015	03F1139-002	2.60	2.90
B8	CO39-015	03F1164-002	3.92	4.22
B9	CO39-016	03F1114-002	3.00	3.30
C1	CP39-002	03F1447-002	2.70	3.00
C5	BH90298	98A1088-001.004	0.80	1.10
C5	BH90298	98A1088-001.006	1.10	1.70
C5	BH90298	98A1088-001.008	1.70	2.40
C5	BH90298	98A1088-001.010	2.40	3.00
C5	CP39-004	03F1457-003	2.80	3.30
D5	BH90398	98A1497-001.002	0.80	1.30
D5	BH90398	98A1497-001.004	1.30	1.80
D5	BH90398	98A1497-001.006	1.80	2.30
E5	BH90498	98A2016-001.002	0.70	1.20
E5	BH90498	98A2016-001.004	1.20	1.70
E5	BH90498	98A2016-001.006	1.70	2.20
E5	BH90498	98A2016-001.008	2.20	2.70
F5	BH90598	98A1298-001.002	1.10	1.60
F5	BH90598	98A1298-001.004	1.60	2.10
G3	CO39-021	03F2193-003	4.74	4.94
G5	BH90698	98A1055-003.033	0.80	1.50
G5	BH90698	98A1055-003.034	1.50	2.10
G5	BH90698	98A1055-003.035	2.10	2.80
G6	CO39-022	03F2188-002	4.31	4.61
H5	BH90798	98A1055-002.023	0.80	1.50
H5	BH90798	98A1055-002.025	1.50	2.00
H5	BH90798	98A1055-002.024	2.00	2.50
I5	BH90898	98A1498-001.002	0.90	1.40
I5	BH90898	98A1498-001.004	1.40	1.90

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Cell ID	Location Code	Sample Number	Start Depth (ft)	End Depth (ft)
I5	BH90898	98A1498-001.006	1.90	2.40
I5	BH90898	98A1498-001.008	2.40	2.90
I6	CP39-028	03F1940-001	2.44	2.74
I6	CP39-034	03F1940-002	2.47	2.77
J5	BH90998	98A2015-001.002	0.80	1.30
J5	BH90998	98A2015-001.004	1.30	1.80
J5	BH90998	98A2015-001.006	1.80	2.30
J5	BH90998	98A2015-001.008	2.30	2.80
K5	BH91098	98A1297-001.002	1.40	1.90
K5	BH91098	98A1297-001.004	1.90	2.40
K5	BH91098	98A1297-001.006	2.40	2.90
K5	BH91098	98A1297-001.008	2.90	3.40
L4	CO38-027	03F1053-003	3.10	3.40
L4	CO38-027	03F1057-001	4.10	4.50
L5	BH91198	98A1091-001.019	0.90	1.30
L5	BH91198	98A1091-001.020	1.30	1.90
L5	BH91198	98A1091-001.021	1.90	2.50
L5	BH91198	98A1091-001.022	2.50	3.10
L5	BH91198	98A1091-001.033	3.10	3.40
L5	CO38-026	03F1053-002	3.10	3.40
L5	CO38-026	03F1059-001	4.50	5.00
L5	CO38-026	03F0135-009	4.50	5.50
L5	CO38-053	03F1053-004	3.10	3.40
L6	BLACK BAND-NORTH	03F0124-001	1.50	1.90
L6	CO38-025	03F1053-001	3.40	3.70
L6	CO38-025	03F1053-001	3.40	3.70
L6	CO38-025	03F1057-002	4.50	4.80
L7	BH96998	99A6824-001.003	4.20	4.40
L7	BH96998	99A6824-001.002	4.40	4.80
L8	06691	BH00516WCU2	2.40	2.60
L8	CO38-029	03F1054-001	3.00	3.30
L8	CO38-029	03F1059-003	4.50	4.80
L8	CO38-055	03F0135-013, 03F1060-005, 03F0148-012	4.50	5.20
M5	BH91298	98A1055-001.009	1.00	1.50
M5	BH91298	98A1055-001.010	1.50	2.00
M5	BH91298	98A1055-001.012	2.00	2.60
N5	BH91398	98A1499-001.002	0.80	1.30
N5	BH91398	98A1499-001.004	1.30	1.80
N5	BH91398	98A1499-001.006	1.80	2.30
N5	BH91398	98A1499-001.008	2.30	2.80
O2	BH91498	98A2014-001.002	0.80	1.30
O2	BH91498	98A2014-001.004	1.30	1.80
O2	BH91498	98A2014-001.006	1.80	2.30
O2	BH91498	98A2014-001.008	2.30	2.80
O5	CP38-037	03F1453-001	3.00	3.50
O7	CQ38-002	03F1450-001	2.79	3.09

*Closeout Report for IHSS Group 900-11, IHSS 112 – 903 Pad*

Cell ID	Location Code	Sample Number	Start Depth (ft)	End Depth (ft)
O7	CQ38-008	03F1450-002	3.29	3.69
O8	CQ38-003	03F1451-001	3.03	3.33
P5	6NW	02E0109-006, 02E0109-007	0.00	2.00
P5	BH91598	98A1296-001.002	1.50	2.00
P5	BH91598	98A1296-001.004	2.00	2.50
P5	BH91598	98A1296-001.006	2.50	3.00
P5	BH91598	98A1296-001.008	3.00	3.50
Q5	BH91698	98A2017-001.002	0.90	1.40
Q5	BH91698	98A2017-001.004	1.40	1.90
Q5	BH91698	98A2017-001.006	1.90	2.40
Q5	BH91698	98A2017-001.008	2.40	2.90
R5	BH91798	98A0899-002.004	1.10	1.60
R5	BH91798	98A0899-002.006	1.60	2.00
R5	BH91798	98A0899-002.008	2.00	2.40
S2	CP38-069	03F1575-001	3.09	3.39
S5	BH91898	98A1500-001.006	1.10	1.60
S5	BH91898	98A1500-001.008	1.60	2.10
S5	BH91898	98A1500-001.010	2.10	2.60
T1	CP38-065	03F1560-004	2.94	3.24
T2	BH91998	98A1944-001.006	0.90	1.40
T2	BH91998	98A1944-001.008	1.40	1.90
T2	BH91998	98A1944-001.010	1.90	2.40
T2	BH91998	98A1944-001.012	2.40	2.90
T6	CP38-060	03F1553-002	3.03	3.33
T8	CQ38-006	03F1461-002	3.00	3.30
U5	BH92098	98A2019-001.002	0.90	1.40
U5	BH92098	98A2019-001.004	1.40	1.90
U5	BH92098	98A2019-001.006	1.90	2.40
U5	BH92098	98A2019-001.008	2.40	2.90
U8	CO37-008	04F0046-002	2.65	2.85
V5	BH92198	98A2018-001.002	0.70	1.20
V5	BH92198	98A2018-001.004	1.20	1.70
V5	BH92198	98A2018-001.006	1.70	2.20
V6	08791	BH00503WCU2	1.70	1.90
W5	BH92298	98A0899-001.005	0.90	1.60
W5	BH92298	98A0899-001.003	1.60	2.00
W5	BH92298	98A0899-001.001	2.00	2.30
X5	BH92398	98A1501-001.002	1.30	1.80
X5	BH92398	98A1501-001.004	1.80	2.30
Y2	BH92498	98A1502-001.002	1.10	1.60
Q3	BLACK BAND-SOUTH	03F0124-003	1.20	1.60
L6	BLACK BAND-WEST	03F0124-002	1.60	2.10
L6	BLACK BAND-WEST	03F0124-002	1.60	2.10

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### 13.0 DATA QUALITY ASSESSMENT

The DQA process ensures that the type, quantity, and quality of environmental data used in decision making are defensible, and is based on the following guidance and requirements:

- EPA, 1994a, Guidance for the Data Quality Objective (DQO) Process, QA/G-4;
- EPA, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, QA/G-9; and
- U.S. Department of Energy (DOE), 1999c, Quality Assurance, Order 414.1A.

Verification and validation (V&V) of data are the primary components of the DQA. The final data are compared with original project DQOs and evaluated with respect to project decisions; uncertainty within the decisions; and quality criteria required for the data, specifically precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS). Validation criteria are consistent with the following RFETS-specific documents and industry guidelines:

- EPA 540/R-94/012, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review;
- EPA 540/R-94/013, 1994d, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review;
- Kaiser-Hill Company, L.L.C. (K-H) V&V Guidelines:
  - General Guidelines for Data Verification and Validation, DA-GR01-v2, 2002a
  - V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v2, 2002b
  - V&V Guidelines for Volatile Organics, DA-SS01-v3, 2002c
  - V&V Guidelines for Semivolatile Organics, DA-SS02-v3, 2002d
  - V&V Guidelines for Metals, DA-SS05-v3, 2002e, and
- Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5.

This report will be submitted to the CERCLA AR for permanent storage 30 days after being provided to the Colorado Department of Public Health and Environment (CDPHE) and/or EPA.

#### 13.1 V&V of Results

Verification ensures that data produced and used by the project are documented and traceable in accordance with quality requirements. Validation consists of a technical review of all data that directly support the project decisions so that any limitations of the data relative to project goals are delineated and the associated data are qualified accordingly. The V&V process defines the criteria that constitute data quality, namely

PARCCS parameters. Data traceability and archival are also addressed. In general, V&V criteria include the following:

- Chain-of-custody;
- Preservation and hold times;
- Instrument calibrations;
- Preparation blanks;
- Interference check samples (metals);
- Matrix spikes/matrix spike duplicates (MS/MSDs);
- Laboratory control samples (LCSs);
- Field duplicate measurements;
- Chemical yield (radiochemistry);
- Required quantitation limits/minimum detectable activities (sensitivity of chemical and radiochemical measurements, respectively); and
- Sample analysis and preparation methods.

Evaluation of V&V criteria ensures that PARCCS parameters are satisfactory (that is, within tolerances acceptable to the project). Satisfactory V&V of laboratory quality controls are captured through application of validation “flags” or qualifiers to individual records.

Raw hard-copy data (for example, individual analytical data packages) are currently filed by report identification number (RIN) and maintained by K-H Analytical Services Division (ASD); older hard copies may reside in the Federal Center in Lakewood, Colorado. Electronic data are stored in the RFETS SWD.

Both real and QC data are included on the enclosed CD.

#### **13.1.1 Accuracy and Precision**

The standard measures of accuracy and precision that are generally reviewed are:

- LCSs;
- Surrogates;
- Field blanks; and
- Sample MSs.

Results are compared to method requirements and project goals. The results of these comparisons are summarized for RFCA COCs where the result could impact project

decisions. Particular attention is paid to those values near ALs when QC results could indicate unacceptable levels of uncertainty for decision-making purposes.

#### *Laboratory Control Sample Evaluation*

LCSs were measured for alpha spectroscopy methods. However, the laboratory does not provide the minimum, maximum, or percent difference, nor do they provide the data in a format that allows calculation of these values. Nevertheless, the data are considered acceptable. A comparison of the number of detected values to the reported results shows that the data are well correlated. Because the data are consistent, it is likely that the analytical systems were in control and the analytical data are consistent with the true values.

#### *Field Blank Evaluation*

Results of the field blank analyses are provided in Table 9. Detectable (non-"U" laboratory qualified) amounts of contaminants within the blanks, which could indicate possible cross-contamination of samples, are evaluated if the same contaminant is detected in the associated real samples. Evaluation consists of multiplying the field blank results by 10 (for laboratory contaminants) or 5 (for non-laboratory contaminants) and comparing them to the WRW ALs. To be conservative a factor of 10 is used in this evaluation. When the corrected field blank result is less than the WRW AL, the associated real results are considered acceptable. In the IHSS Group 900-11 data none of the field blank results multiplied by 10 exceeded their WRW ALs. Therefore, blank contamination did not adversely impact project decisions.

**Table 9**  
**Field Blank Summary**

Sample QC Code	Laboratory	CAS No.	Analyte	Detected Result	Unit
RNS	URS	15117-96-1	Uranium-235	0.18	pCi/g
EB	URS	15117-96-1	Uranium-235	0.143	pCi/g
RNS	URS	7440-61-1	Uranium-238	3.08	pCi/g
EB	URS	7440-61-1	Uranium-238	2.41	pCi/g

Field blank (EB = equipment, field = FB, rinse = RNS, trip = TB) for results greater than detection limits (not "U" qualified)

#### *Sample Matrix Spike Evaluation*

The sample MS evaluation is not available because spikes are not used for radionuclides.

#### **13.1.2 Precision**

Precision is measured by evaluating both MSDs and field duplicates, as described in the following sections.

### Matrix Spike Duplicate Evaluation

The MS spike duplicate evaluation is not available because spikes are not used for radionuclides.

### Field Duplicate Evaluation

Field duplicate results reflect sampling precision, or overall repeatability of the sampling process. Field duplicates were not required for this project because the sampling methodology required the collection of random samples to confirm standard confirmation samples. Because the random samples were used in decisionmaking, they were not considered field duplicate QC samples. Fifteen random samples were collected.

### 13.1.3 Completeness

Based on original project DQOs, a minimum of 25 percent of ER Program analytical (and radiological) results must be formally verified and validated. Of that percentage, no more than 10 percent of the results may be rejected, which ensures that analytical laboratory practices are consistent with quality requirements. Table 10 shows the number and percentage of validated records (codes without "1"), the number and percentage of verified records (codes with "1"), and the percentage of rejected records for each analyte group. Because the frequency of validation is within project quality requirements and in compliance with the RFETS validation goal of 25 percent of all analytical records, the results indicate that these data are adequate.

**Table 10**  
**V&V Summary**

Validation Qualifier Code	Sum of CAS Nos.	No. of Alpha Spectroscopy Records	Gamma Spectroscopy
No V&V	15	15	0
I	20	0	20
J	3	3	0
J1	2	2	0
V	533	92	441
V1	515	63	452
Total	1088	175	913
Validated	536	95	441
% Validated	49.26%	54.29%	48.30%
Verified	537	65	472
% Verified	49.36%	37.14%	51.70%

Validated codes J,V,JB,UJ

Verified codes I,J1,V1,JB1,UJ1

### 13.1.4 Sensitivity

Minimum detectable activities (MDAs) in units of pCi/g for radionuclides were compared with RFCA ALs. Adequate sensitivities of analytical methods were attained

for all COCs that affect project decisions. "Adequate" sensitivity is defined as an MDA less than an analyte's associated AL, typically less than one-half the AL.

### **13.2 Summary of Data Quality**

No records were rejected. Compliance with the project quality requirements and RFETS validation goal of 25 percent of all analytical records indicates these data are adequate. If additional V&V information is received, IHSS 112 records will be updated in the SWD. Data qualified as a result of additional data will be assessed as part of the CRA process. Data collected and used for IHSS 112 are adequate for decision making.

## **14.0 PROJECT CONCLUSIONS**

This accelerated action resulted in the removal of radioactively contaminated soil from IHSS 112, the 903 Pad. With the exception of several locations within the IHSS 112 boundary at depths greater than 3 ft, no soil exceeding the WRW AL for plutonium-239/240 remains. Excavated media included asphalt, concrete, and soil for this site which was placed in waste containers and characterized for appropriate disposal.

Results of the accelerated action justify NFAA. Justification is based on:

- Soil removal based on previous investigation results;
- Soil removal based on confirmation sampling results;
- Removal of soil with contaminant concentrations greater than WRW ALs to a depth of 3 ft;
- Removal of soil with contaminant concentrations greater than WRW ALs to a depth greater than 3 ft.
- Confirmation sampling results;
- Results of the SSRS; and
- Results of the Stewardship Evaluation.

## **15.0 — REFERENCES**

DOE, 1992-2003, Historical Release Reports for the Rocky Flats Plant, Golden, Colorado.

DOE, 1995, Final Phase II RFI/RI Report, 903 Pad, Mound, and East Trenches Area, Operable Unit No. 2, Rocky Flats Plant, Golden, Colorado, October.

DOE, 1998, Annual Update for the Historical Release Report for the Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 1999a, Annual Update for the Historical Release Report for the Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 1999b, Characterization Report for the 903 Drum Storage Area, 903 Lip Area, and Americium Zone, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 1999c, Quality Assurance, Order 414.1A.

DOE, 2002a, Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation Notification #02-09, Rocky Flats Environmental Technology Site, Golden, Colorado, October.

DOE, 2002b, Buffer Zone Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

DOE, 2002c, Second Quarter RFCA Groundwater Monitoring Report, Rocky Flats Environmental Technology Site, Golden, Colorado, November.

DOE, 2003a, Annual Update for the Historical Release Report for the Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 2003b, Buffer Zone Sampling and Analysis Plan Addendum #BZ-04-01, Rocky Flats Environmental Technology Site, Golden, Colorado, December.

DOE, 2003c, Buffer Zone Sampling and Analysis Plan FY04 Addendum #BZ-04-11, IHSS Group 900-11, PAC SE-1602 (East Firing Range), Rocky Flats Environmental Technology Site, Golden, Colorado, January.

DOE, 2003d, Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation Notification #03-07, Rocky Flats Environmental Technology Site Golden, Colorado.

DOE, 2003e, Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation, Modification 1, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

DOE, 2003f, Automated Surface Water Monitoring Report, Water Year 2002, Rocky Flats Environmental Technology Site, Golden, Colorado, November.

DOE, 2004a, Interim Measure/Interim Remedial Action for IHSS Group 900-11 (903 Lip Area and Vicinity, the Windblown Area, and Surface Soil in Operable Unit 1 (881 Hillside) Rocky Flats Environmental Technology Site, Golden, Colorado, August.

DOE, 2004b, Rocky Flats Environmental Technology Site Revegetation Plan Revision 2, Rocky Flats Environmental Technology Site, Golden, Colorado, January.

DOE, CDPHE, and EPA, 2003, Modifications to the Rocky Flats Cleanup Agreement Attachment, U.S. Department of Energy, Colorado Department of Public Health and Environment, and U.S. Environmental Protection Agency, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

EPA, 1994a, Guidance for the Data Quality Objective Process, QA/G-4.

EPA, 1994b, EPA Laboratory Program National Functional Guidelines for Organic Data Review, 540/R-94/012.

EPA 1994c, EPA Laboratory Program National Functional Guidelines for Inorganic Data Review, 540/R-94/013.

EPA, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, QA/G-9.

EPA, 2002, Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation FY02 Notification #02-09 Approval Letter, October 9.

K-H, 2002a, General Guidelines for Data Verification and Validation, DA-GR01-v2.

K-H, 2002b, V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v2.

K-H, 2002c, V&V Guidelines for Volatile Organics, DA-SS01-v3.

K-H, 2002d, V&V Guidelines for Semivolatile Organics, DA-SS02-v3.

K-H, 2002e, V&V Guidelines for Metals, DA-SS05-v3.

Lockheed-Martin, 1997, Evaluation of Radiological Data Usability, ES/ER/MS-5.

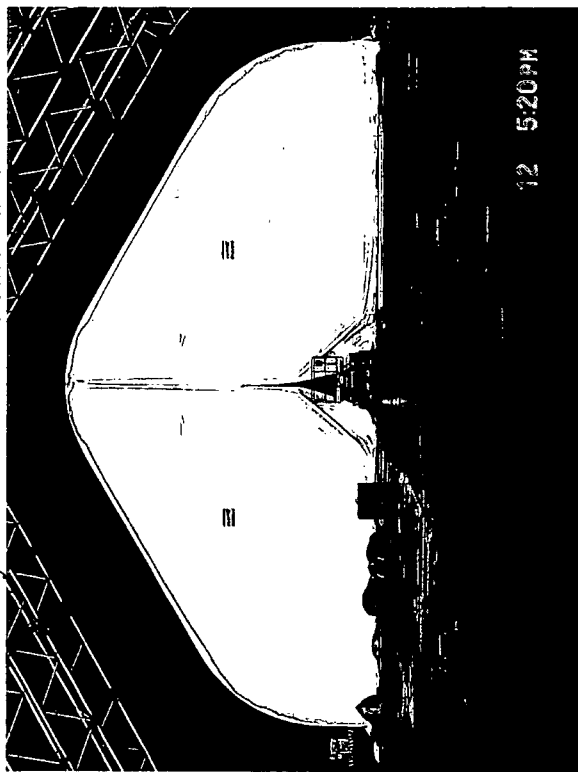
75

**Appendix A**  
**Project Photographs**

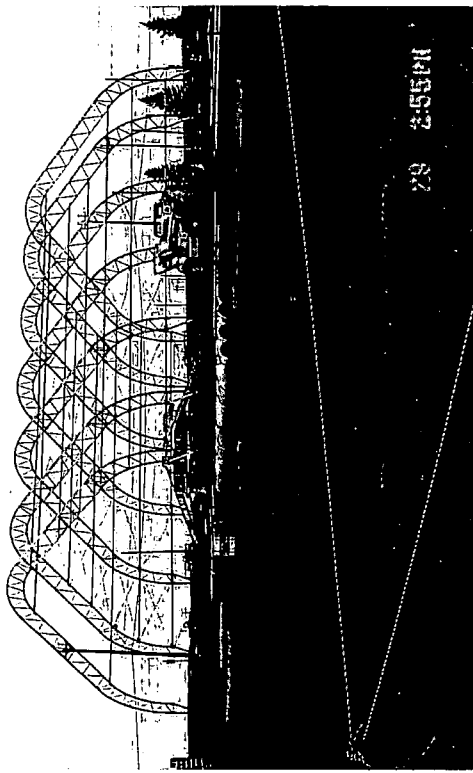




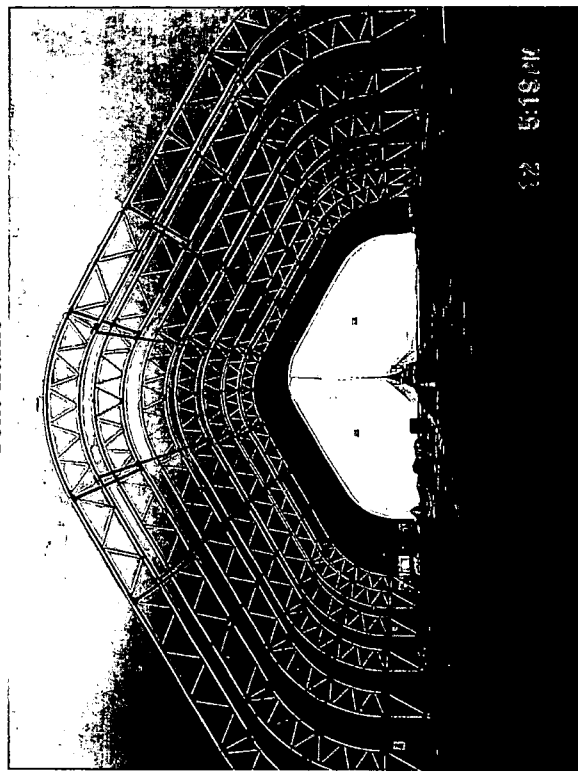
Layout of tent structure base frame



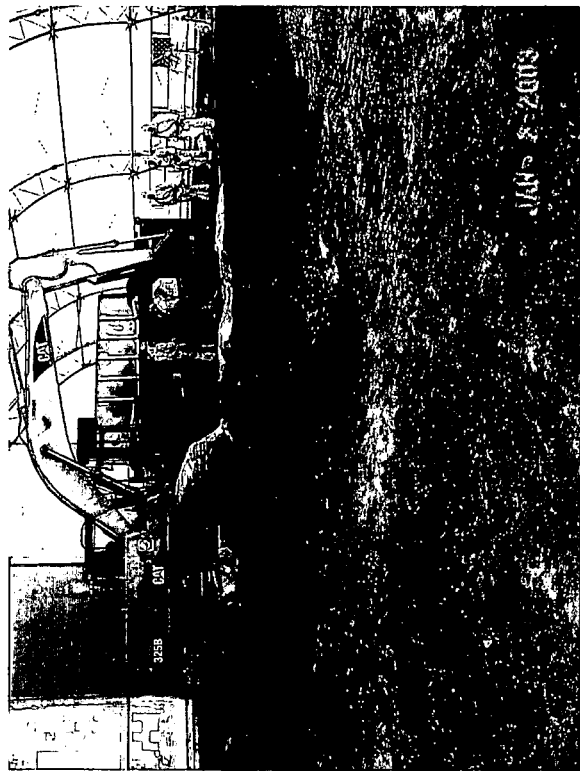
Fabric being completed on tent



Tent frame



Tent frame with completed tent in background



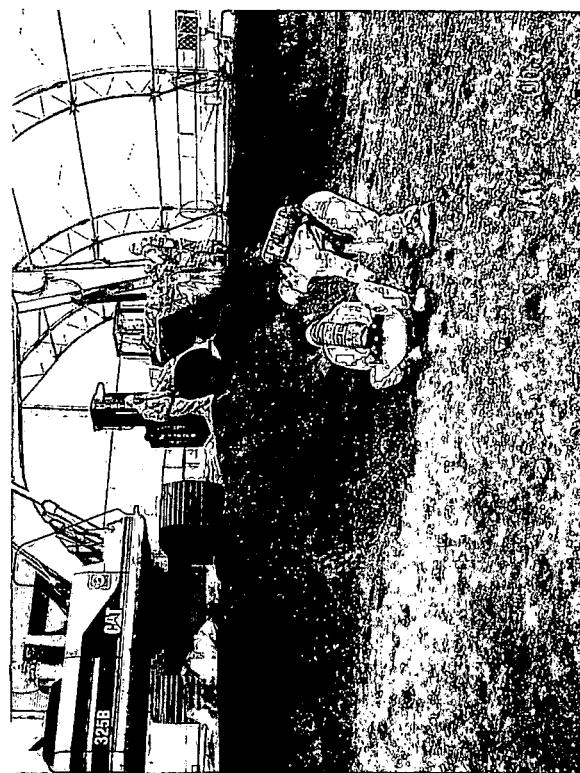
JAN 10 2003

URS samplers taking waste profile sample from bucket



JAN 10 2003

URS sampler taking a confirmation sample



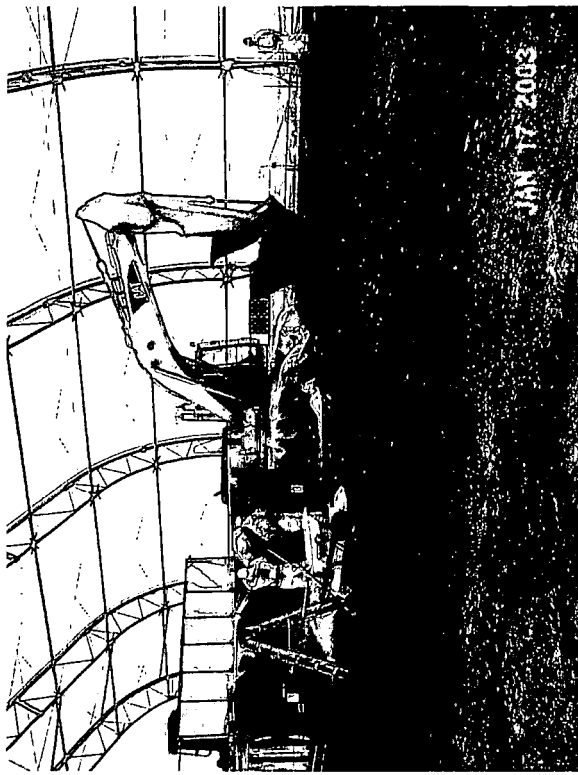
JAN 10 2003

URS samplers taking confirmation sample



JAN 10 2003

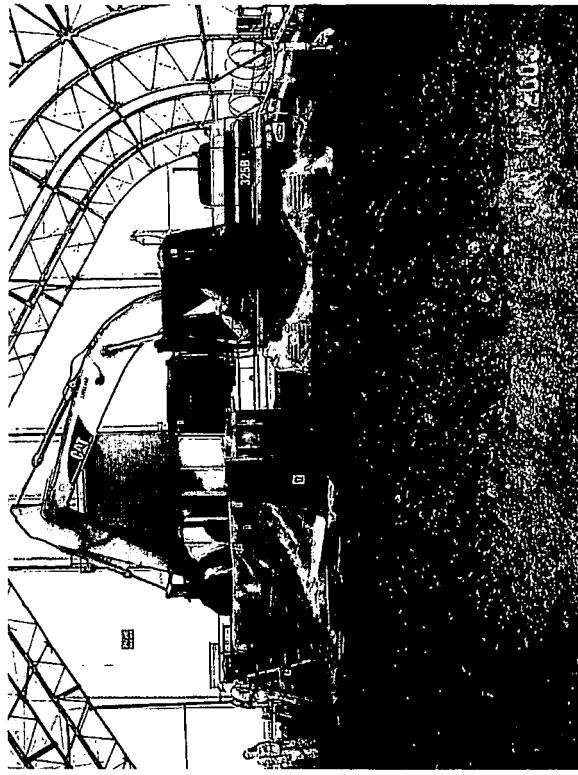
Excavation of cell & loading intermodal



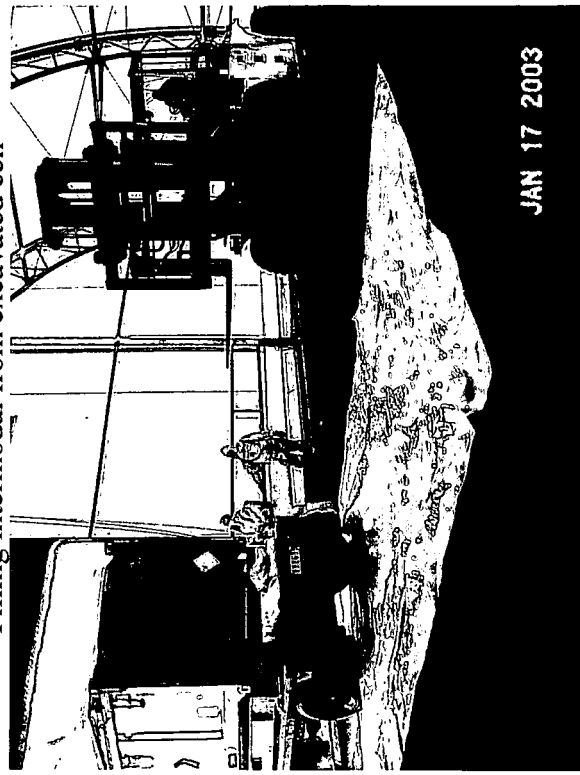
Controlling spread of contamination with plastic over intermodal



URS taking a waste profile sample



Filling intermodal from excavated cell



Completed load out & transfer of full intermodal on trailer



Staging a container inside the tent



Unknown concrete slab near grids K1/K2



Radiological Control Technicians survey uncovered slab



Breaking up slab into smaller pieces



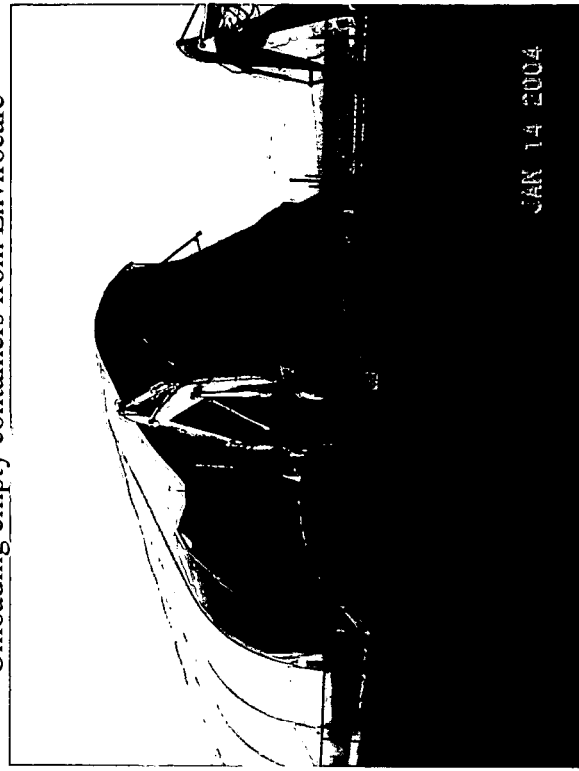
Filling a Vollrath container during TRU waste repack



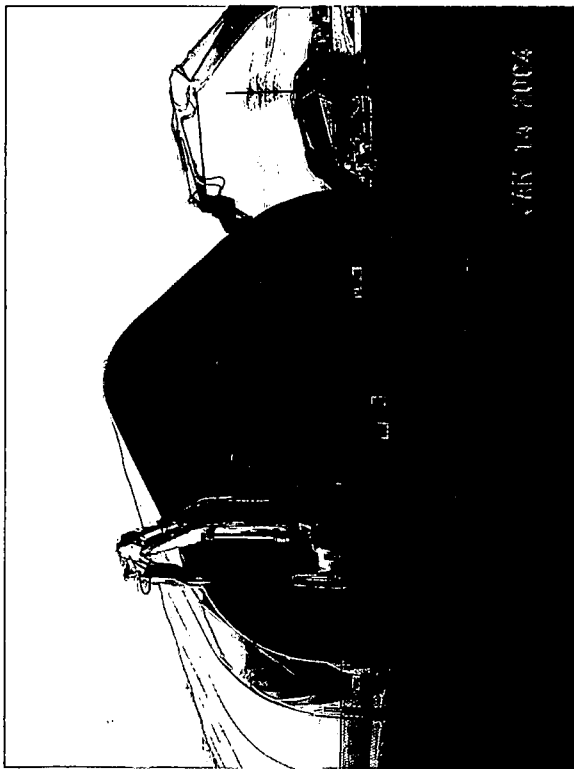
Intermodals (full) staged on the 903 Pad



Unloading empty containers from Envirocare



Demolition of tent #2



Initial demolition of tent #2

**Appendix B  
Correspondence**

**Appendix B**  
**Regulatory Contact Records**



**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
ER REGULATORY CONTACT RECORD**

**Date/Time:** November 12, 2002 / 2:00

**Site Contact(s):** Annette Primrose  
**Phone:** (303) 966-4385

**Regulatory Contact:** Gary Kleeman

**Phone:** (303) 312-6246  
**Agency:** EPA

**Purpose of Contact:** Confirmation sample locations at 903 Pad

**Discussion**

Confirmation samples are required to be collected from the center of each excavated grid cell during the 903 Pad remediation action. Because of the difficulty of surveying within an active tent, the location of each confirmation sample will be determined at the time of sample collection and is expected to be roughly in the center of each excavated grid cell. The confirmation sample locations will be surveyed later after excavation activities are completed in the weather structure and prior to backfill. Reg Tyler also agrees with this approach.

**Contact Record Prepared By:** Annette Primrose

**Required Distribution:**

S. Bell, RFFO  
L. Brooks, K-H ESS  
L. Butler, K-H RISS  
C. Deck, K-H Legal  
R. DiSalvo, RFFO  
S. Gunderson, CDPHE  
J. Legare, RFFO

D. Mayo, K-H RISS  
J. Mead, K-H ESS  
S. Nesta, K-H RISS  
K. North, K-H ESS  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Spreng, CDPHE

**Additional Distribution**

(choose names as applicable):

M. Broussard, K-H RISS  
J. Hindman, CDPHE  
G. Kleeman, USEPA  
D. Kruchek, CDPHE  
L. Norland, K-H RISS  
A. Primrose, K-H RISS  
M. Keating, K-H RISS  
T. Spence, K-H RISS  
M. Young, URS  
S. Serreze, K-H RISS  
R. Tyler, DOE RFFO  
N. Castaneda, DOE RFFO  
D. Strand, K-H RISS  
Admin Record

# ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

**Date/Time:** December 30, 2002 – Monday / 3:35 PM

**Site Contact:** Michael Bernski  
**Phone:** 303-966-4090

**Regulatory Contacts:** Carl Spreng, CDPHE, 303-692-3358  
Mark Aguilar, EPA, 303-312-6251

**Purpose of Contact:** Use of Propylene Glycol as antifreeze for dust suppression water at the 903 Pad

## Discussion

When subfreezing temperatures have been encountered in association with the 903 Pad, we have had repeated problems resulting from the freezing of lines and pumps on the water trucks. The water trucks supply the water for dust suppression on soil excavations on the pad. Without water, no new excavation is allowed. A solution to the problem is to use Propylene Glycol as antifreeze in association with the water trucks, either as a component in a mixture with water inside the tank of the truck or use Propylene Glycol in the lines and pumps after flushing out the tank. Consultations with Site Nuclear Safety, Criticality Safety, Fire Safety, Industrial Hygiene, Air Quality and Environmental resulted in Site approval for the above uses of Propylene Glycol. In a phone discussion on Friday, 12/27, with Carl Spreng, he approved the use, and today, in a discussion with Mark Aguilar, he also approved the use. Propylene Glycol is already in use on Site and we will borrow necessary quantities immediately while obtaining a supply.

**Contact Record Prepared By:** Michael Bernski

## Required Distribution:

S. Bell, RFFO  
L. Brooks, K-H ESS  
L. Butler, K-H RISS  
C. Deck, K-H Legal  
R. DiSalvo, RFFO  
S. Gunderson, CDPHE  
J. Legare, RFFO

D. Mayo, K-H RISS  
J. Mead, K-H ESS  
S. Nesta, K-H RISS  
K. North, K-H ESS  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Spreng, CDPHE

## Additional Distribution

(choose names as applicable):

M. Broussard, K-H RISS  
J. Hindman, CDPHE  
G. Kleeman, USEPA  
D. Kruchek, CDPHE  
L. Norland, K-H RISS  
A. Primrose, K-H RISS  
E. Pottorff, CDPHE  
S. Tower, DOE

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

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**Date/Time:** January 2, 2003/ Approx. 10:15 a.m.

**Site Contact(s):** Tracey Spence, Rick DiSalvo, Reginald Tyler, Lane Butler  
**Phone:** 4322

**Regulatory Contact:** Tim Rehder, EPA; Carl Spreng, CDPHE  
**Phone:** 303-312-6293 303-692-3358

**Agency:** EPA CDPHE

---

**Purpose of Contact:** 903 Pad Excavation and Backfill at Cell L8

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### **Discussion**

A teleconference conversation was held with Tim Rehder and Carl Spreng regarding further excavation of the 903 Pad Cell L8. Based on the preliminary confirmation sample gamma spec results for core samples collected at Cell L8 on 12-31-02, it was agreed by all to remove 2 additional excavator buckets (side-by-side) of native soil at the L8 random sample location to a depth of 2 feet. A sample would then be collected at the same random sample location from the base of the excavated area for gamma spec analysis.

It was agreed by all that Cell L8 would be backfilled if the random sample results indicate that contamination is less than 1 nCi/g Pu-239/240.

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**Contact Record Prepared By:** Tracey Spence

---

### Required Distribution

R. DiSalvo, RFFO  
L. Kilpatrick, RFFO  
N. Castenada, RFFO  
D. Shelton, K-H  
J. Legare, RFFO  
T. Rehder, USEPA  
G. Kleeman, USEPA  
S. Gunderson, CDPHE

S. Nesta, K-H RISS  
L. Butler, K-H RISS  
K. North, K-H ESS  
C. Deck, K-H Legal  
D. Mayo, K-H RISS  
J. Mead, K-H ESS  
L. Brooks, K-H ESS  
C. Spreng, CDPHE

H. Ainscough, CDPHE  
L. Norland, K-H RISS  
A. Primrose, K-H RISS  
M. Keating, K-H RISS  
L. Butler, K-H RISS  
R. Tyler, RFFO

# ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

**Date/Time:** February 3, 2003/10:30 am

**Site Contact(s):** Lane Butler  
**Phone:** (303) 966-5245

**Regulatory Contact:** Tim Rehder  
**Phone:** (303) 312-6293  
**Agency:** EPA

**Purpose of Contact:** 903 Pad backfill

## Discussion

The plutonium value calculated for the confirmation sample collected at the C-1 cell location was 50.8 pCi/g, slightly above the action level of 50 pCi/g. This sample was collected at a depth of 3.2 feet below top of asphalt. Because the method used to calculate the plutonium value is conservative, the EPA agreed that the cell could be backfilled.

**Contact Record Prepared By:** Lane Butler

## Required Distribution:

S. Bell, RFFO  
L. Brooks, K-H ESS  
L. Butler, K-H RISS  
C. Deck, K-H Legal  
R. DiSalvo, RFFO  
S. Gunderson, CDPHE  
J. Legare, RFFO  
S. Surovchak, RFFO

D. Mayo, K-H RISS  
J. Mead, K-H ESS  
S. Nesta, K-H RISS  
K. North, K-H ESS  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Spreng, CDPHE  
R. Tyler, RFFO  
N. Castaneda, RFFO  
R. McCalister, RFFO

## Additional Distribution (choose names as applicable):

M. Broussard, K-H Team  
J. Hindman, CDPHE  
G. Kleeman, USEPA  
D. Kruchek, CDPHE  
L. Norland, K-H Team  
A. Primrose, K-H Team  
E. Pottorff, CDPHE  
T. Lindsay, K-H Team  
S. Serreze, K-H Team

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

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Date/Time: 4/29/03 / 4:49 PM

Site Contact(s): Lane Butler  
Phone: 303/966-5245

Regulatory Contact: Tim Rehder  
Phone: 303/312-6293

Agency: EPA

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Purpose of Contact: 903 Pad Sampling at S2

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### Discussion

On April 17, 2003, I contacted Norma Castaneda of DOE and seperately called Tim Rehder of EPA to discuss the following issue at 903 Pad and inform them of our actions. Excavation at cell S2 had been completed on April 16th. The confirmation sample was collected with a field screening reading of 3.1 pCi/g. A randon sample was collected with a field screening result of ~26 pCi/g. The normal procedure is to make decisions based on the confirmation sample results even with expected variation from the random sample. However, due to the significantly higher random sample results in this case, KH took the conservative action to excavate another six inches in the quadrant of the cell where the random sample was taken. After the extra excavation another sample was collected in the excavated quandrant with a result of 0 pCi/g. A decision by a member of the field crew was made to collect another field screening sample near the initial confirmation sample. The result of this sample was ~14 pCi/g. However, this sample was determined not to be consistent with procedure as a confirmation sample upon which to base excavation and backfill decisions. Consistent with the results of the initial confirmation the cell was backfilled and the tent was moved.

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Contact Record Prepared By: Lane Butler

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### Required Distribution:

S. Bell, RFFO  
L. Brooks, K-H ESS  
L. Butler, K-H RISS  
C. Deck, K-H Legal  
R. DiSalvo, RFFO  
S. Gunderson, CDPHE  
J. Legare, RFFO

D. Mayo, K-H RISS  
J. Mead, K-H ESS  
S. Nesta, K-H RISS  
K. North, K-H ESS  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Spreng, CDPHE

### Additional Distribution

(choose names as applicable):

M. Broussard, K-H RISS  
J. Hindman, CDPHE  
G. Kleeman, USEPA  
D. Kruchek, CDPHE  
L. Norland, K-H RISS  
A. Primrose, K-H RISS  
E. Pottorff, CDPHE  
S. Tower, DOE

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

---

**Date/Time:** 4/30/03/ 1530

**Site Contact(s):** Mike Keating  
**Phone:** 303.966.4815

**Regulatory Contact:** Tim Rehder  
**Phone:** 303.312.6293  
**Agency:** EPA

---

**Purpose of Contact:** Confirm Implementation of RFCA Mods for Excavation Decision Criteria

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### **Discussion**

I left Tim a voice mail message regarding excavation of cell R4 at 903 Pad. The excavation had reached 3'3" below the top of native soil (5.48 feet total depth below top of asphalt) with confirmation sample gamma spec results at 6.5 pCi/g (Am) and the field duplicate at 9.0 pCi/g (Am) based on the preliminary field screen. Based on the Am\*8+3 conversion to Pu, these samples would have exceeded the 50 pCi/g criteria for Pu. I request approval to implement the proposed RFCA Mods that allowed a decision criteria of 1 nCi/g Pu (instead of 50 pCi/g Pu) at 3 feet below the top of native soil.

Tim Rehder left me a voice mail that approved the implementation of the RFCA Mods for remediation excavation at the 903 Pad project.

Based on Mr. Rehder's voice mail message, the project team to discontinue excavation at the 3'3" native soil depth.

---

**Contact Record Prepared By:** Mike Keating

---

### Required Distribution:

S. Bell, RFFO  
L. Brooks, K-H ESS  
L. Butler, K-H RISS  
C. Deck, K-H Legal  
R. DiSalvo, RFFO  
S. Gunderson, CDPHE  
J. Legare, RFFO

D. Mayo, K-H RISS  
J. Mead, K-H ESS  
S. Nesta, K-H RISS  
K. North, K-H ESS  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Spreng, CDPHE

### Additional Distribution

(choose names as applicable):

M. Broussard, K-H RISS  
J. Hindman, CDPHE  
G. Kleeman, USEPA  
D. Kruchek, CDPHE  
L. Norland, K-H RISS  
A. Primrose, K-H RISS  
E. Pottorff, CDPHE  
S. Tower, DOE

# ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

**Date/Time:** 4/30/03/ 1530

**Site Contact(s):** Mike Keating  
**Phone:** 303.966.4815

**Regulatory Contact:** Gary Kleeman  
**Phone:** 303.312.6246  
**Agency:** EPA

**Purpose of Contact:** Confirm Implementation of RFCA Mods for Excavation Decision Criteria

## Discussion

I left Gary a voice mail message regarding excavation of cell R4 at 903 Pad. The excavation had reached 3'3" below the top of native soil (5.48 feet total depth below top of asphalt) with confirmation sample gamma spec results at 6.5 pCi/g (Am) and the field duplicate at 9.0 pCi/g (Am) based on the preliminary field screen. Based on the Am\*8+3 conversion to Pu, these samples would have exceeded the 50 pCi/g criteria for Pu. I request approval to implement the proposed RFCA Mods that allowed a decision criteria of 1 nCi/g Pu (instead of 50 pCi/g Pu) at 3 feet below the top of native soil.

Mr. Kleeman returned the call and approved the implementation of the RFCA Mods for remediation excavation at the 903 Pad project. Mr. Kleeman followed up with an e-mail (see below)

"Mike—

This is just to follow up and document our phone discussion today through which you informed me that cell R4 had been excavated to a depth of 3'3" below the top of the native soil and that a confirmation sample taken from that depth WHICH had a field gamma screen result of 6.6 pCi/g Am. Based on this information, I approved backfilling this cell since you had excavated deeper than 3 feet of native soil and were well below 1nCi/g Pu."

Based on Mr. Kleeman's approval, the project team to discontinue excavation at the 3'3" native soil depth.

**Contact Record Prepared By:** Mike Keating

## Required Distribution:

S. Bell, RFFO  
L. Brooks, K-H ESS  
L. Butler, K-H RISS  
C. Deck, K-H Legal  
R. DiSalvo, RFFO  
S. Gunderson, CDPHE  
J. Legare, RFFO

D. Mayo, K-H RISS  
J. Mead, K-H ESS  
S. Nesta, K-H RISS  
K. North, K-H ESS  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Spreng, CDPHE

## Additional Distribution

(choose names as applicable):

M. Broussard, K-H RISS  
J. Hindman, CDPHE  
G. Kleeman, USEPA  
D. Krucke, CDPHE  
L. Norland, K-H RISS  
A. Primrose, K-H RISS  
E. Pottorff, CDPHE  
S. Tower, DOE

# ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

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**Date/Time:** 6/11/2003 1130

**Site Contact(s):** Mike Keating  
**Phone:** 303.966.4815

**Regulatory Contact:** Gary Kleeman  
**Phone:** 303.312.6246  
**Agency:** EPA

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**Purpose of Contact:** Revisions to 903 Pad SAP (rev. 2.3)

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**Discussion**

Gary Kleeman/EPA approved the draft revisions to the 903 Pad SAP (rev 2.3) with modifications that he was sending me. The modifications were received by e-mail on 6/12 and were incorporated into the 903 Pad SAP (rev 2.3). The 903 Pad SAP was signed on 6/19 and will be implemented on 6/23.

The 903 Pad SAP (rev 2.3) will replace the current single grab confirmation sample, bias grab sample, and the grab random sample with a single composite sample consisting of 5 grab samples collected from the bottom of the excavation for each cell.

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**Contact Record Prepared By:** Mike Keating

---

Required Distribution:

S. Bell, RFFO  
L. Brooks, K-H ESS  
L. Butler, K-H RISS  
C. Deck, K-H Legal  
R. DiSalvo, RFFO  
S. Gunderson, CDPHE  
J. Legare, RFFO

D. Mayo, K-H RISS  
J. Mead, K-H ESS  
S. Nesta, K-H RISS  
K. North, K-H ESS  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Spreng, CDPHE

Additional Distribution

(choose names as applicable):

M. Broussard, K-H RISS  
J. Hindman, CDPHE  
G. Kleeman, USEPA  
D. Kruchek, CDPHE  
L. Norland, K-H RISS  
A. Primrose, K-H RISS  
E. Pottorff, CDPHE  
S. Tower, DOE



## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

---

**Date/Time:** July 15, 2003

**Site Contact(s):** Mike Keating/KH; Lane Butler/KH; Karen Wiemelt/KH;  
Norma Casteneda/DOE

**Phone:** 303.966.4815

**Regulatory Contact:** Tim Rehder/EPA; Steve Gunderson/CDPHE; Harlan Ainscough/CDPHE

**Phone:** 303.312.6293

**Agency:** EPA/CDPHE

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**Purpose of Contact:** Discuss issues regarding soils at 903 Pad that are less than 50 pCi/g

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### Discussion

During the conference call, the following issues were discussed:

- It was agreed that for last rows of cells at the southern edge of the 903 Pad (U1-U9, V1-V9, W1-W9, X1-X9, and Y1-Y9) once the asphalt is removed, a confirmation sample could be taken of the native soil. The composite confirmation sample will be collected as described in the most recent SAP (rev 2.3). If the laboratory gamma spec analysis showed calculated concentrations of Pu to be less than 50 pCi/g, no soil will be excavated from that cell. The gravel base course immediately below the asphalt would also be left in place. Clean backfill will then be placed in the cell to bring it up to grade.
- 18 Intermodals filled from cells U1-U3 have calculated concentrations below 50 pCi/g. KH proposed to put back the soil into some of the other deeper excavations on the Pad. A minimum of 1 foot of clean imported backfill would be placed over the "put back" fill. Laboratory data (gamma spec) for the intermodals will be sent to EPA and CDPHE to review. A final decision on implementing this proposal will be pending on reviewing the data.
- An Pu/Am ratio of 5.7 will be used for calculating Pu in the 903 Lip area soil remediation activities.
- An Pu/Am ratio of 8.0 will continue to be used for calculating Pu for confirmation samples at the 903 Pad remediation.

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**Contact Record Prepared By:** Mike Keating

---

### Required Distribution:

S. Bell, RFFO  
L. Brooks, K-H ESS  
L. Butler, K-H RISS  
C. Deck, K-H Legal  
R. DiSalvo, RFFO  
S. Gunderson, CDPHE  
J. Legare, RFFO

D. Mayo, K-H RISS  
J. Mead, K-H ESS  
S. Nesta, K-H RISS  
K. North, K-H ESS  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Spreng, CDPHE

### Additional Distribution

(choose names as applicable):

M. Broussard, K-H RISS  
J. Hindman, CDPHE  
G. Kleeman, USEPA  
D. Kruchek, CDPHE  
L. Norland, K-H RISS  
A. Primrose, K-H RISS  
E. Pottorff, CDPHE  
S. Tower, DOE

**Appendix B**  
**Daily Reports and Other Correspondence**

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Friday, November 15, 2002 5:56 AM  
**To:** Gary Kleeman; Spreng, Carl  
**Cc:** Tyler, Reginald; Castaneda, Norma; Dreith, Gary; Butler, Lane; Norland, Lee; Primrose, Annette; Keating, Michael; Demos, Nick; Bemski, Mike  
**Subject:** RE: Day 1 excavation and plans for Friday

We started on the northwest corner of the pad and slowly removed asphalt only. The asphalt appeared to be from 5 to 7 inches thick and broke into 1 to 3 foot wide pieces. We removed about half of the cell (10' x 15'). This filled the Intermodal about half full. We stopped at that point to ensure we didn't exceed the waste container weight limit. The container lid was closed and Rad Operations then began high volume air sampling inside the tent as planned. Some dust was generated while removing the asphalt so water was applied with a hose and spray nozzle as needed.

We plan to make a morning and afternoon entry today. We will weigh the asphalt container and then load it onto the trailer and stage it outside the tent (after rad surveys are cleared). We'll then bring a new container inside the tent and remove the remaining asphalt on the first cell (cell 9). Rad Operations has asked that we stop excavation at this point to collect more air samples before removing soil to provide a baseline for asphalt removal. Soil removal will begin after the air sampling is completed. I'll send out a status email at the end of the day.

-----Original Message-----

**From:** Gary Kleeman  
**Sent:** Thursday, November 14, 2002 9:10 PM  
**To:** Spence, Tracey  
**Subject:** Day 1 excavation and plans for Friday

Tracey--

Just wondering how much progress was made today. Did the asphalt come up in large pieces or crumbly?

How much did you accomplish? How much do you expect to do on Friday?  
Please let me know. Thanks, gk

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Wednesday, November 20, 2002 5:48 AM  
**To:** Gary Kleeman  
**Subject:** RE: 903 pad status

I'll do my best. You're right I do have a lot going on right now. I expect that starting next week I won't have to supervise the work inside the tents and will have more time in the office.

We completed excavation of the first grid cell (cell A3) yesterday. We collected a confirmation sample from cell A3 and removed the asphalt on the adjacent cell A2. Today we intend to remove soil to 2 feet below surface on cell A3. Operations are still slow due to radiological monitoring requirements. We should be able to perform excavation activities and waste container removal from the tent at the same time by the end of the week.

I'll update you at the end of the day.

Tracey

-----Original Message-----

**From:** Gary Kleeman  
**Sent:** Tuesday, November 19, 2002 7:32 PM  
**To:** Spence, Tracey  
**Subject:** 903 pad status

Tracey--

I realize that you have a lot going on, but I would like to have an update everyday... either email or voicemail...Thanks, gk

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Thursday, November 21, 2002 6:17 AM  
**To:** 'Kleeman.Gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael  
**Subject:** 903 Pad Update

No excavation work was performed inside the active weather tent on Wednesday, November 20. During start up of the tent ventilation system, it was observed that the pressure drop measurement for the air mover pre-filters was slightly above the limit for filter replacement. The pre-filters were replaced and two additional filters were installed at the ventilation system air intake openings inside the tent. These intake filters will prevent the pre-filter from loading up so quickly and can easily be replaced as needed. Based on the radiological air filter sampling results, the filter loading is due primarily to particulates emitted from the heavy equipment exhaust.

As you know, we completed soil excavation and collected the first confirmation sample from grid cell A3 on Tuesday. We also removed asphalt on the adjacent cell A2. Preliminary gamma spec. results for the cell A3 confirmation sample indicate that Am-241 was detected at 0.69 pCi/g. This implies that Pu-239/240 levels in the soil are well below the cleanup action level. I will have the final report forwarded to you this morning following the data validation check.

Today we intend to remove four filled waste containers (2 asphalt and 2 soil) from inside the tent, stage empty containers inside the tent, and begin excavation of soil on cell A2.

Have a good day.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Paris, Steve  
**Sent:** Thursday, November 21, 2002 5:19 PM  
**To:** Spence, Tracey  
**Cc:** Norland, Lee; Rees, Christopher; Rodgers, John M.  
**Subject:** RE: 03F1027\_903\_Final.pdf

Tracey,

I calculated your Pu-239/240 based on the equation in Appendix I, 903 Lad Liner Regression Case Study, of the Buffer Zone Sampling and Analysis Plan.

Cell	Bottle Number	Method	Cas No.	Analyte	Result	Pu-239 (calculated)	Units
A3	03F1027-002.002	Gamma	14596-10-2	Americium-241	6.90E-01	8.82	pCi/g

Appears your well below the 50 pCi/g threshold for Pu-239/240.

Steve

-----Original Message-----

**From:** Spence, Tracey  
**Sent:** Wednesday, November 20, 2002 5:08 PM  
**To:** Paris, Steve  
**Subject:** FW: 03F1027\_903\_Final.pdf

Thanks Steve.

-----Original Message-----

**From:** Lariviere, Ellen  
**Sent:** Wednesday, November 20, 2002 2:27 PM  
**To:** Cowdery, Craig; Luker, Steve; Norland, Lee; Spence, Tracey  
**Subject:** 03F1027\_903\_Final.pdf

<< File: 03F1027\_903\_Final.pdf >>

03F1027\_903\_Final.pdf

**Serreze, Susan**

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**From:** Spence, Tracey  
**Sent:** Friday, November 22, 2002 6:11 AM  
**To:** 'Kleeman.Gary@epa.gov'; 'spreng.carl@state.co.us'  
**Cc:** Castaneda, Norma; Butler, Lane; Norland, Lee; Primrose, Annette; Keating, Michael; Demos, Nick; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 11-21-02

**AM Entry - November 21**

- Removed four Intermodal waste containers (2 asphalt and 2 soil) filled with materials from cell A3 on Tuesday.
- Brought four empty waste containers into the tent and staged for the PM entry.

**PM Entry - November 21**

- Excavated one foot of native soil underlying the asphalt and gravel base from cell A2.
- Partially excavated into cell A5 to clear soil from east side of cell A2.
- Loaded all soil into five Intermodal waste containers.
- Collected soil samples from each excavator bucket and composited for gamma spec analysis.
- Collected confirmation sample from cell A2.

Based on radiological air sampling data and air flow measurements collected inside the tent since work started on November 14, transfer of the waste containers into and out of the tent during excavation operations has been approved by Rad Engineering and Rad Operations. These activities were implemented during the PM shift.

Today we plan to set up and begin removing asphalt on cell A1 during the AM entry and excavate soil and collect the A1 confirmation sample by the end of the PM entry.

The final gamma spec analysis report for the cell A3 excavation confirmation sample has been reviewed. I will forward this file to you following this email. Using the equation in Appendix I, 903 Pad Linear Regression Case Study of the Buffer Zone Sampling and Analysis Plan, the calculated Pu-239/240 result for cell A3 is 8.82 pCi/g (Am-241 = 0.69 pCi/g). This is well below the 50 pCi/g threshold for Pu-239/240.

Have a good day.

**Tracey Spence**  
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**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Friday, November 22, 2002 6:16 AM  
**To:** 'Kleeman.Gary@epa.gov'; 'spreng.carl@state.co.us'  
**Cc:** Castaneda, Norma; Butler, Lane; Norland, Lee; Primrose, Annette; Keating, Michael; Demos, Nick; Bemski, Mike  
**Subject:** FW: 03F1027\_903\_Final.pdf

Attached is the gamma spec results for cell A3 excavation confirmation sample.

—Original Message—

**From:** Lariviere, Ellen  
**Sent:** Wednesday, November 20, 2002 2:27 PM  
**To:** Cowdery, Craig; Luker, Steve; Norland, Lee; Spence, Tracey  
**Subject:** 03F1027\_903\_Final.pdf



03F1027\_903\_Final.pdf

03F1027\_903\_Final.pdf



**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Tuesday, November 26, 2002 6:37 AM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Bemski, Mike; Demos, Nick  
**Subject:** 903 Pad Update 11-25-02

Activities completed on Monday, November 25, 2002:

- Completed soil removal from cell A1.
- Collected excavation confirmation soil samples, including EPA samples, from cell A1.
- Received final results for cell A2 confirmation sample. The calculated result for Pu-239/240 is 16.17 pCi/g. The pdf file for cell A2 is attached.
- At approximately 1:30pm, one of two air mover motors shut down. Work inside the tent was stopped at this time. The manufacturer was contacted and repairs are scheduled first thing Tuesday morning.

Excavation of cell A6 will begin when the ventilation system is operable.

Have a good day.



Final\_CO39-001A  
(Cell A Panel ...)

**Tracey Spence**  
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**E-mail: tracey.spence@rfets.gov**

**Serreze, Susan**

**From:** Spence, Tracey  
**Sent:** Wednesday, November 27, 2002 6:05 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 11-26-02

Activities completed on 11-26-02:

- Repaired tent ventilation system air mover motor controller.
- Resumed operations inside the active remediation tent at 12:30pm.
- Removed all asphalt and approximately 1/2 of soil and gravel beneath the asphalt on cell A6. The native soil was excavated to 1 foot or more below the gravel base.
- Filled two intermodals with the asphalt (and gravel) and two intermodals with soil/gravel.
- Received final gamma spec results for the confirmation, field duplicate and random samples collected at cell A1 on 11-25-02. Calculated Pu-239/240 activities based upon results for Am-241 are summarized below for cell A1 and for previously collected confirmation samples in Cell Set A. A confirmation sample was also collected from cell A1 for offsite alpha spec analysis. These results will not be available for at least 14 days from time of receipt by the lab. The cell A1 alpha spec results will be provided as soon as they become available.

Cell	Type	Bottle Number	Method	Cas No.	Analyte	Result	Pu-239/240 calc.	Units
A1	Confirmation	03F1047-008.002	Gamma	14596-10-2	Americium-241	9.50E-01	10.92	pCi/g
A1	Field Duplicate	03F1047-005.002	Gamma	14596-10-2	Americium-241	5.20E-01	7.44	pCi/g
A1	Random	03F1047-006.001	Gamma	14596-10-2	Americium-241	9.30E-01	10.75	pCi/g
A1	Confirmation		Alpha					
A2	Confirmation	03F1046-001.002	Gamma	14596-10-2	Americium-241	1.60E+00	16.17	pCi/g
A3	Confirmation	03F1027-002.002	Gamma	14596-10-2	Americium-241	6.90E-01	8.82	pCi/g

Today we plan to complete soil excavation on cell A6 and collect the A6 excavation confirmation sample. We will then start excavation on cell A5.

Have a good day.

Tracey Spence  
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E-mail: tracey.spence@rfets.gov

**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Monday, December 02, 2002 5:37 PM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Update 12-02-02

Activities completed on 12-02-02:

- Completed excavation of native soil to a depth of 1 foot beneath base of gravel layer at cell A5. Filled 3 intermodal waste containers with soil.
- Collected the cell A5 excavation confirmation sample.
- Loaded 5 waste containers onto transports for shipment to Envirocare.
- Received final gamma spec results for the cell A6 excavation confirmation sample. No Am-241 was detected. A copy of the cell A6 gamma spec "pdf" file is attached.

No excavation work inside the tent was performed this afternoon due to problems starting the excavator. Electrical tests were performed which indicate that the starter solenoid is bad. A new starter will be installed tomorrow morning. Once the excavator is operational, removal of asphalt will begin at cell A4. If the excavator is repaired early (as planned), it is expected that all asphalt and soil will be removed from cell A4 by the end of the day.

Excavation of the maximum area inside each tent is now being considered in order to reduce the total number of tent moves. Once excavation of cell A4 is complete, we are currently planning to backfill the previously excavated cells inside the tent (A1, A2, A3, A4, A5 and A6), based on gamma spec results. Equipment would then be moved onto the backfilled half of the tent to begin excavation of the adjacent cells A7, A8 and A9. Excavation of cells B1, B2 and B3 may also be excavated before moving the tent.



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CO39\_003A\_final\_formI.pdf

**Tracey Spence**  
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**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Wednesday, December 04, 2002 6:07 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Update 12-03-02

Activities completed on 12-03-02:

No excavation work was performed due to the mechanical problems with the excavator. The excavator was repaired at approximately 4:25pm by replacing the starter motor.

Loaded 5 filled waste containers onto transports for shipment to Envirocare.

Received final gamma spec results for the cell A5 excavation confirmation sample. No Am-241 was detected. A copy of the cell A5 gamma spec "pdf" file is attached.

Performed rigging exercises in preparation for the first tent move. This is expected to take place Friday of this week or Monday or Tuesday of next week once all cable load tests are completed and the Tent Relocation Ops Order is approved.

Today we plan to backfill the previously excavated cells A1, A2, A3, A5, and A6. Once these cells are backfilled, the heavy equipment inside the tent will be moved onto the backfilled area and excavation will begin at cells A4, A7, A8 and A9. Cells B1, B2 and B3 will also be excavated before the tent is moved.



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Form 1.pdf (...)

0212002\_903\_Final Form 1.pdf

Have a good day.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
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**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Thursday, December 05, 2002 5:51 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Update 12-04-02

Activities completed on 12-04-02:

Backfilled previously excavated cells A1, A2, A3, A5 and A6.

Performed additional electrical repairs on excavator due to a faulty hydraulic control relay switch. Tested all electrical and hydraulic systems.

Loaded 5 filled waste containers onto transports for shipment to Envirocare.

Performed rigging and de-rigging exercises in preparation for the first tent move. The first tent move is planned to take place Monday or Tuesday of next week once all cable load tests are completed and the Tent Relocation Ops Order is approved.

Today we plan to complete compaction of the backfilled area and begin excavation on the east side of the tent starting with cell B1 or B3. The current plan is to excavate cells B1, B2, B3 and A4, A7, A8 and A9 before the tent is moved. Excavating as many cells as possible inside each tent location will reduce the total number of tent moves. Note: A Field Duplicate excavation confirmation sample will be collected from cell B1 and a Random confirmation sample will be collected from cell B2. I will notify you in advance when these sampling events will occur.

Have a good day.

**Tracey Spence**  
**Environmental Restoration, T124A**  
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**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Int:** Friday, December 06, 2002 6:07 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Update 12-05-02

### Activities completed on 12-05-02:

- Completed backfill and compaction of the previously excavated cells A1, A2, A3, A5 and A6.
- Removed asphalt from cell B3 and approximately half of the underlying native soil to a minimum depth of 1 foot below the asphalt gravel base.
- Filled 2 intermodal waste containers with asphalt and 2 intermodal containers with soil.
- Loaded 5 filled waste containers onto transports for shipment to Envirocare.

### Planned activities today:

- Complete soil removal at cell B3 and collect the B3 excavation confirmation sample.
- Remove asphalt at cell B2 and excavation gravel base and native soil.
- Collect the cell B2 confirmation sample and the B2 Random confirmation sample (CO39-025).
- Receive and install load-tested cables and new dozer winch cables and prepare to perform the first tent move on Monday, December 9. I will provide a time for the tent move as soon as we know when all preparations for the move will be completed.

Have a good day.

Tracey Spence  
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Fax: 303-966-2402  
E-mail: tracey.spence@rfets.gov

**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Monday, December 09, 2002 5:44 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Update 12-06-02

Activities completed on 12-06-02:

- Completed soil removal at cell B3 and collected the B3 excavation confirmation sample.
- Removed asphalt at cell B2.
- Removed asphalt at cell B1.
- Filled 3 intermodal waste containers with asphalt and 4 intermodal containers with soil.
- Received and installed load-tested cables and new dozer winch cables.
- Tensioned and adjusted tow cables for first tent pull.
- Finalized Tent Relocation Ops Order.

Planned activities today:

- Remove native soil at cells B2 and B1.
- Collect excavation confirmation sample and Random confirmation sample (CO39-025) at cell B2.
- Collect excavation confirmation sample and Field Duplicate confirmation sample at cell B1.
- Obtain approval signatures for the Tent Relocation Ops Order and JHA.
- Complete all preparations and obtain approval for first weather tent move.
- Perform first weather tent move sometime after 12:00pm.

Have a good day.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Monday, December 09, 2002 7:05 PM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Update 12-09-02

Activities completed on 12-09-02:

- Removed native soil at cells B2 and B1.
- Collected excavation confirmation sample and Random confirmation sample (CO39-025) at cell B2.
- Collected excavation confirmation sample and Field Duplicate confirmation sample at cell B1.
- Filled 11 intermodal waste containers.

Planned activities on 12-10-02:

- Hold Pre-job briefing for relocating the first weather tent.
- Remove concrete ballast from east tent (Tent II) and prepare to move Tent II.
- Relocate Tent II.
- Remove asphalt on cells A7, A8 and A9.
- Begin soil excavation at either cell A7 or A9. This will be decided at the daily briefing on 12-10.
- Replace the tent ventilation system pre-filters and HEPA filters.

**Tracey Spence**  
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**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**



**Spence, Tracey**

**From:** Spence, Tracey  
**Sent:** Wednesday, December 11, 2002 5:57 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-10-02

Activities completed on 12-10-02:

- Held Pre-job briefing for relocating the first weather tent.
- Successfully moved Tent II approximately 125 feet south using the cable tow system and two CAT D7 dozers with winches.
- Removed asphalt at cells A7, A8 and A9.
- Began soil excavation at cell A9.
- Filled 4 intermodal waste containers with asphalt and one container with soil.
- Replaced the tent ventilation system HEPA pre-filters.

Activities planned on 12-11-02:

- Continue soil removal at cell A9 and remove soil at cells A7 and A8.
- Collect excavation confirmation soil samples at cells A9 and A8.
- Move Tent II to the Cell Set P location. This area includes the 903 Pad characterization sample location (91598) with the highest detected radioactive contamination levels (approximately ~~252~~ pCi/g Pu-239/240).

Have a good day.

152,000

**Tracey Spence**  
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**E-mail: tracey.spence@rfets.gov**

**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Wednesday, December 11, 2002 6:12 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-10-02

Activities completed on 12-10-02:

- Held Pre-job briefing for relocating the first weather tent.
- Successfully moved Tent II approximately 125 feet south using the cable tow system and two CAT D7 dozers with winches.
- Removed asphalt at cells A7, A8 and A9.
- Began soil excavation at cell A9.
- Filled 4 intermodal waste containers with asphalt and one container with soil.
- Replaced the tent ventilation system HEPA pre-filters.

Activities planned on 12-11-02:

- Continue soil removal at cell A9 and remove soil at cells A7 and A8.
- Collect excavation confirmation soil samples at cells A9 and A8.
- Move Tent II to the Cell Set P location. This area includes the 903 Pad characterization sample location (91598) with the highest detected radioactive contamination levels (approximately 152,000 pCi/g Pu-239/240).

Have a good day.

**Tracey Spence**  
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**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Thursday, December 12, 2002 6:41 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-11-02

Activities completed on 12-11-02:

- Removed soil at cells A9, A8 and A7. Filled 12 intermodal waste containers.
- Collected excavation confirmation soil samples at cells A9 and A8.
- Attempted to move Tent II to the Cell Set P location. During the move, one of the concrete ballast plates began to rise above the ground surface. The towing operations were stopped. Damage was observed where the ballast plate is bolted to the connection plate on the tent frame. The tent manufacturer was contacted to determine the cause of damage. Towing operations from the tent side-wall (to the south) are suspended until a corrective action is determined. Towing from the end-wall side of the tent (to the west) may be performed with approvals from Engineering, Health & Safety, and K-H Management.

Planned activities on 12-12-02:

- Complete soil removal at cell A7 and collect the A7 confirmation sample.
- Remove asphalt and soil at cell A4. Collect the A4 confirmation sample, if time allows.
- Tow Tent II to the west end of the pad, if approved.

Have a good day.

**Tracey Spence**  
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**E-mail: tracey.spence@rfets.gov**

**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Friday, December 13, 2002 6:30 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl  
**Cc:** Castaneda, Norma; Butler, Lane; Keating, Michael; Primrose, Annette; Demos, Nick; Bemski, Mike; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-12-02

Activities completed on 12-12-02:

- Completed soil removal at cell A7. Collected the A7 excavation confirmation sample.
- Collected one additional excavation confirmation sample (biased sample) at cell A7 for EPA alpha spec analysis.
- Removed all asphalt and excavated all soil at cell A4.
- Collected the A4 excavation confirmation sample.
- Collected one additional confirmation sample at cell B2 1.5 feet south of original confirmation sample location for onsite gamma spec analysis.
- Filled 2 intermodal waste containers with asphalt and 9 containers with soil.  
Note: Excavation work inside Tent I is completed. Tent I will now be prepared for relocation to the east (one tent location). Remediation operations will then resume inside Tent I while the side-wall (north-south) tow connection issues are being resolved.
- Loaded 6 filled intermodal containers onto transports for shipment to Envirocare.
- Successfully moved Tent II approximately 90 feet west using the end-wall (east-west) tow cables and the two dozers. Tent II will be moved further west and south to Cell Set P once the tent side-wall tow repairs are completed.

Planned activities on 12-13-02:

- Receive gamma spec results for cells A7, A8, A9 and A4. Based on gamma spec results, prepare to clear Tent I.
- Perform air sampling and radiological surveys to depost the tent in preparation to move it one tent location to the east.
- Decontaminate and release the heavy equipment for transfer out of Tent I.
- Detach and relocate the tent ventilation system, breathing air system, and stepoff conex.
- Begin backfill operations inside Tent I, if time allows.
- Approve engineering design for the side-wall tow connections and begin repairs on Tent II.
- Relocate Tent II to Cell Set P if time allows.
- Load-out 5 filled intermodal containers for shipment to Envirocare.

Have a good day.

**Tracey Spence**  
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**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Saturday, December 14, 2002 9:16 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette  
**Cc:** Demos, Nick; Bemski, Mike; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-13-02

### Activities completed on 12-13-02:

- Received preliminary gamma spec results for cells A7, A8, A9 and A4. Received preliminary gamma spec results for the biased confirmation sample collected at cell A7. Received preliminary gamma spec results for the additional cell B2 confirmation sample collected 1.5 feet south of the original confirmation sample location (CO39-013). Based on the preliminary gamma spec data, the calculated Pu-239/240 results for all confirmation samples listed above are below the 50 pCi/g threshold for Pu-239/240. The final gamma spec reports will be forwarded to the Agencies Monday, December 16.
- Performed air sampling and radiological surveys to deposit Tent I.
- Decontaminated and released the heavy equipment from Tent I.
- Began back-filling excavated area inside Tent I.
- Relocated ventilation system and attached ducts to Tent II. Sealed openings in Tent II to optimize air flow into the tent.
- Loaded 6 filled intermodal waste containers onto transports for shipment to Envirocare.
- Relocated equipment/materials on 903 Pad to clear areas for future tent moves and excavation activities.

Note: One of two load cells used to measure total pulling force between the tent rigging and the dozer tow cables is not operating properly. Subsequently, all tent towing operations are suspended until the faulty load cell is repaired or replaced. The planned towing of Tent I to one tent location east of its present location will be delayed until next week. Excavation activities are currently planned to resume inside Tent II at its present location (instead of in Tent I) in order to limit further delays. Partial excavation of some grid cells may be required since the current Tent II position is not aligned with the marked cell lines. Excavation and sampling of the grid cells under Tent II will be conducted consistent with the sampling strategy outlined in the 903 Pad sampling plan.

### Planned activities on 12-16-02:

- Mobilize equipment into Tent II.
- Perform air flow smoke test inside Tent II.
- Relocate breathing air system and stepoff conex to Tent II.
- Post Tent II and begin excavation operations inside Tent II.
- Complete back-filling/compaction inside Tent I and prepare tent for east tow.
- Load-out 7 filled intermodal waste containers for offsite disposal.
- Receive final gamma spec reports for cells A7, A8, A9 and A4. Submit to the Agencies.

From this point on I plan to distribute the daily updates to everyone listed above and will no longer prepare a weekly status email.

### First Tent Move (South) Photos:



Setup Before First  
Tent Move.jpg...



First South Pull.jpg  
(169 KB)



Tent MoveA.jpg  
(198 KB)



Tent MoveB.jpg  
(218 KB)

**Tracey Spence**  
**Environmental Restoration, T124A**  
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**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Serreze, Susan

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**From:** Primrose, Annette  
**Sent:** Monday, December 16, 2002 5:56 AM  
**To:** Serreze, Susan  
**Subject:** FW: 903 Update 12-13-02

Pictures of tent move

-----Original Message-----

**From:** Spence, Tracey  
**Sent:** Saturday, December 14, 2002 9:16 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette  
**Cc:** Demos, Nick; Bemski, Mike; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-13-02

Activities completed on 12-13-02:

- Received preliminary gamma spec results for cells A7, A8, A9 and A4. Received preliminary gamma spec results for the biased confirmation sample collected at cell A7. Received preliminary gamma spec results for the additional cell B2 confirmation sample collected 1.5 feet south of the original confirmation sample location (CO39-013). Based on the preliminary gamma spec data, the calculated Pu-239/240 results for all confirmation samples listed above are below the 50 pCi/g threshold for Pu-239/240. The final gamma spec reports will be forwarded to the Agencies Monday, December 16.
- Performed air sampling and radiological surveys to depost Tent I.
- Decontaminated and released the heavy equipment from Tent I.
- Began back-filling excavated area inside Tent I.
- Relocated ventilation system and attached ducts to Tent II. Sealed openings in Tent II to optimize air flow into the tent.
- Loaded 6 filled intermodal waste containers onto transports for shipment to Envirocare.
- Relocated equipment/materials on 903 Pad to clear areas for future tent moves and excavation activities.

Note: One of two load cells used to measure total pulling force between the tent rigging and the dozer tow cables is not operating properly. Subsequently, all tent towing operations are suspended until the faulty load cell is repaired or replaced. The planned towing of Tent I to one tent location east of its present location will be delayed until next week. Excavation activities are currently planned to resume inside Tent II at its present location (instead of in Tent I) in order to limit further delays. Partial excavation of some grid cells may be required since the current Tent II position is not aligned with the marked cell lines. Excavation and sampling of the grid cells under Tent II will be conducted consistent with the sampling strategy outlined in the 903 Pad sampling plan.

Planned activities on 12-16-02:

- Mobilize equipment into Tent II.
- Perform air flow smoke test inside Tent II.
- Relocate breathing air system and stepoff conex to Tent II.
- Post Tent II and begin excavation operations inside Tent II.
- Complete back-filling/compaction inside Tent I and prepare tent for east tow.
- Load-out 7 filled intermodal waste containers for offsite disposal.
- Receive final gamma spec reports for cells A7, A8, A9 and A4. Submit to the Agencies.

From this point on I plan to distribute the daily updates to everyone listed above and will no longer prepare a weekly status email.

First Tent Move (South) Photos:



Setup Before First  
Tent Move.j...



First South Pull.jpg  
(169 KB)



Tent MoveA.jpg  
(198 KB)



Tent MoveB.jpg  
(218 KB)

Tracey Spence

## Serreze, Susan

---

**From:** Bemski, Mike  
**Sent:** Tuesday, December 17, 2002 6:34 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-16-02

### Activities completed on 12-16-02:

- Ordered new load cell, which is to arrive on Wednesday, and another load cell has been shipped for repair.
- Backfill of Tent I is complete.
- Tent II base was drilled and fitted for future north-south pulling.
- The corners of Tent II were GPS surveyed (see attached).
- Tent II was sealed, ventilation system was moved into place along the south side of Tent II, the tent was smoke tested and the system brought into full operation. Tent II was posted.
- Excavation began at the west end inside Tent II. Approximately, 2 ½ squares of asphalt were excavated. The designations of three excavated squares are L4, L5, and L6 (see attached).
- Two intermodals were loaded. 7 intermodals were shipped. 6 empty intermodals were received.



Form--Tent Layout  
903 #003.ppt...

Note: An abandoned groundwater monitored well was discovered in the vicinity of L6. Work was stopped and the groundwater crew was called out to review and advise us how to proceed. They were able to confirmed an abandoned well in the area. They will provide guidance early this morning.

### Planned activities for 12-17-02:

Continue excavation at the west end of Tent II.

Commence sampling of excavated cells.

Prep Tent I for future tent north-south tent movement.

Receive roadbase.

Receive/ship intermodals.

Remove soil/asphalt piles from the Soil Contamination Area along the west perimeter.

Mike Bemski

Environmental Restoration

303-966-4090, FAX 966-4165

Cell Phone 303-994-2305

dp 303-212-6271, Bldg. T-124-A, Cube 38

Email [mike.bemski@rfets.gov](mailto:mike.bemski@rfets.gov)

# Confirmation Sample Layout 903 Pad Remediation URS Sampling

Not to Scale

Tent Setup No. 003  
Tent II  
Setup Tie-In:  
Date: 12/16/02

Excavation Completion  
Date: \_\_\_\_\_

## Legend

+ Confirm. Sample

S Split Sample

L5: gamma & EPA (125 mL P-br)

M5: gamma & CDPHE (125 mL G)

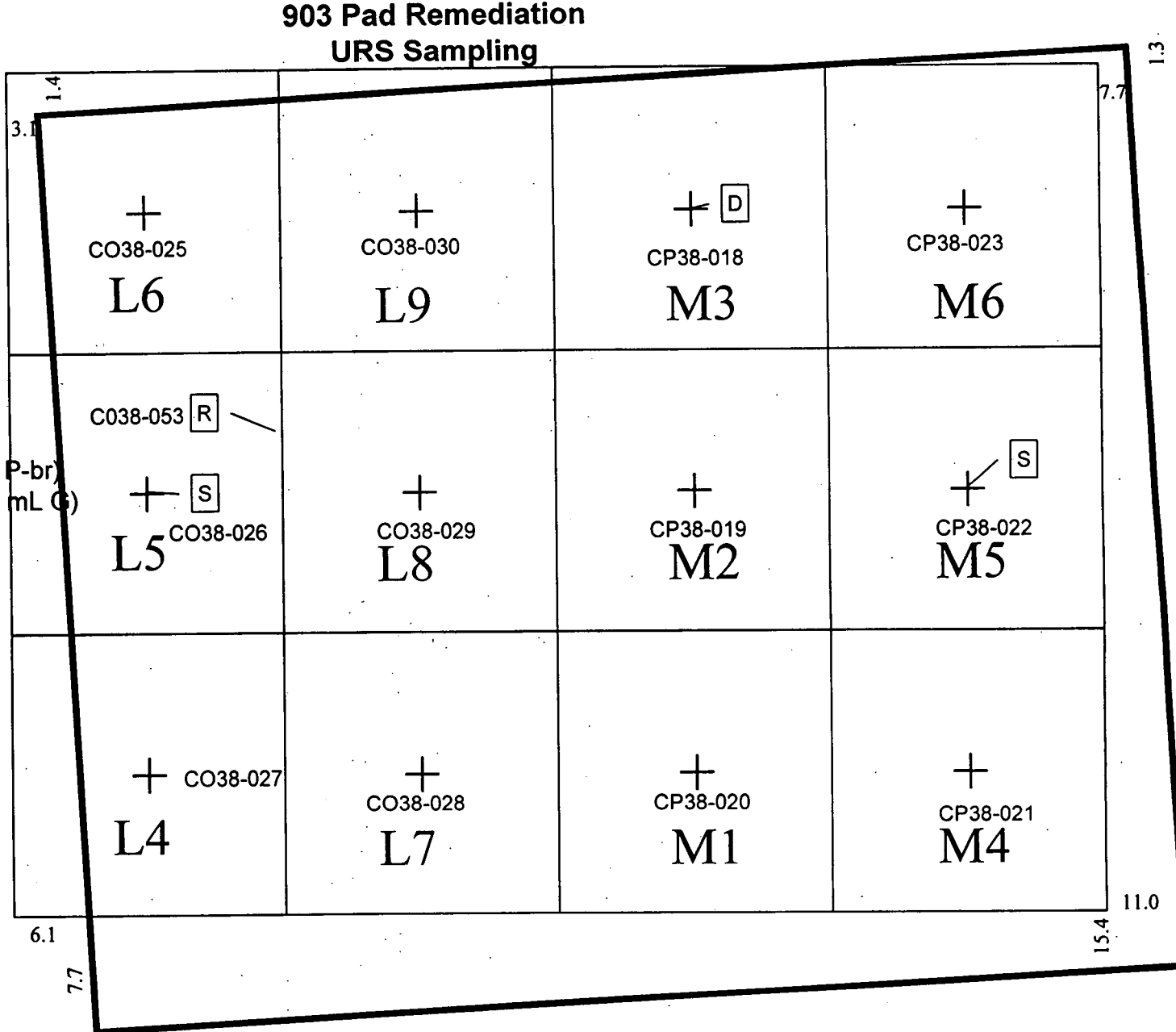
D Duplicate  
2 x gamma

R--Random,  
53' E, 43' N from (0,0)  
gamma & EPA  
(125 mL P--brown)

B--Biased,  
gamma & EPA/CDPHE  
per field indicators

L cells: gamma & EPA

M cells: gamma & CDPHE





## Spence, Tracey

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**From:** Bemski, Mike  
**Int:** Wednesday, December 18, 2002 6:36 AM  
**to:** 'kleeman.gary@epa.gov'; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Tyler, Reginald  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Pad Update 12-17-02

### Activities completed on 12-17-02

- Asphalt was removed from squares L7, L8 and L9 in Tent II.
- Soil was removed from squares L4, L5, and L6. Confirmation samples were collected at each of the squares where soil removal took place. Results have been received from the lab on L6 which was found to contain 2150 pCi/g Pu per gamma spec. This will require further excavation of soil at L6. Notification has been made to the agencies to begin the consultative process to determine how deep we should excavate.
- Tent I was prepared for pulling to the east later this week.
- Ground at the north end was filled in and compacted to allow more stable placement of the ballasts.
- One of the asphalt and soil piles along the west perimeter of the Pad was removed, and the area was deposited from Soil Contamination Area.
- Eighteen intermodals were loaded.

### Planned activities for 12-18-02

Remove additional soil from L6.

Review results from L4 and L5.

Continue excavation in Tent II.

Continue prep activities on Tent I.

Remove other soil and asphalt pile along west perimeter.

Receive roadbase.

Receive/ship intermodals.

Mike Bemski

Environmental Restoration

303-966-4090, FAX 966-4165

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dp 303-212-6271, Bldg. T-124-A, Cube 38

Email [mike.bemski@rfets.gov](mailto:mike.bemski@rfets.gov)

**Serreze, Susan**

---

**From:** Bemski, Mike  
**Sent:** Thursday, December 19, 2002 6:18 AM  
**To:** 'kleeman.gary@epa.gov'; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-18-02

Activities completed on 12-18-02:

- Received confirmation results from cells L4 and L5. A compilation of the three north-south cells on the west side of the current location of Tent II is attached. Decision has been made to remove an additional one foot of soil off of L6, L5, and L4.



Summary of confirm  
samples L4-...

- Completed excavation L8 and L9 with confirmation samples taken. L7 has had all asphalt removed and is nearing completion of soil removal.
- Note: Discovery of elevated readings at L6 came after excavation had proceeded to the next set of three cells to the east. As it was already too far to reach L6 with the excavator bucket, the decision was made to complete L7, L8, and L9, backfill those three with clean soil, and have the excavator move over the clean soil to reapproach L6, L5, and L4.
- Five intermodals were filled.
- Rocky Mountain News photography visited the project site.
- Most of the second pile of asphalt and soil in the SCA along the west perimeter was removed.
- Load cells for the tent pull arrived to the 130 warehouse.
- Prep work continued on Tent I for the pull.

Planned activities for 12-19-02:

Complete excavation and confirmation sampling at L7.

Backfill of L8 and L9.

Place excavator on top of new backfill and remove one foot of soil from L6, L5, and L4.

Pull Tent 1 to the east (depends on weather and soil conditions).

Mike Bemski

Environmental Restoration

303-966-4090, FAX 966-4165

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Email [mike.bemski@rfets.gov](mailto:mike.bemski@rfets.gov)

12-18-02 Results from gamma-spec on confirmation samples from the three north-south cells on the west s

	Am-241	Pu-239	All in pCi/g, NM = Not Measurable by gamma spec
L6	471	2150	
L5	13.8	NM	
L4	72.4	NM	
Random Sample taken on east side of L5	19.7	NM	

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Friday, December 20, 2002 4:46 PM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-20-02

### Activities completed on 12-19-02:

- Started excavation of soil at cell L7 in Tent II. Excavation activities inside Tent II were suspended after 1:00pm due to high winds. During the high wind conditions, air flow into the tent could not be maintained when the rollup door was opened.
- Received replacement load cells for tent pull rigging.
- Loaded 7 filled intermodal waste containers onto transports for shipment to Envirocare.
- Received final gamma spec results for excavation confirmation samples collected at cells L4, L5 and L6. The attached spreadsheet summarizes these data in addition to gamma spec results for previously collected excavation confirmation samples. An additional one foot of soil will be excavated at cells L4, L5 and L6.



903 Confirmation  
Sample Result...

### Activities completed on 12-20-02:

- Relocated Tent I to one tent location immediately east. Tent I now covers cells B4 - B9 and C1 - C6.
- Continued excavation of soil at cell L7. Filled 4 intermodal containers.
- Started placing clean backfill material on cell L8 to build a ramp for the excavator to work from when removing additional one foot of soil from cells L4, L5 and L6.

### Planned activities for 12-23-02:

- Complete excavation of cell L7 and collect L7 excavation confirmation sample.
- Complete placement of backfill for excavator ramp in Tent I.
- Remove additional soil from cells L4, L5 and L6 and collect excavation confirmation samples.
- Prepare Tent I for excavation activities.

I will be on vacation all next week. Please contact Mike Bemski if you have any questions (Office: 303-9664090, Cell: 303-994-2305).

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

Cell	Type	Depth Interval	Bottle Number	Client Sample ID	Method	Can No	Analyte	Result	Lab Result Qualifier	Pu-239 (calculated)	Units	Comments
A1	Confirmation	A	03F1047-008.002	CO39-000	Gamma	14596-10-2	Americium-241	9.50E-01		10.92	pCi/g	
A2	Confirmation	A	03F1046-001.002	CO39-001	Gamma	14596-10-2	Americium-241	1.60E+00		16.17	pCi/g	
A3	Confirmation	A	03F1027-002.002	CO39-002	Gamma	14596-10-2	Americium-241	6.90E-01		8.82	pCi/g	
A4	Confirmation	A	03F1052-001.002	CO39-005	Gamma	14596-10-2	Americium-241	3.90E+00		34.75	pCi/g	
A5	Confirmation	A	03F1048-001.002	CO39-004	Gamma	14596-10-2	Americium-241	7.05E-01	U	8.94	pCi/g	MDA substituted for result
A6	Confirmation	A	03F1031-001.002	CO39-003	Gamma	14596-10-2	Americium-241	6.72E-01	U	8.67	pCi/g	MDA substituted for result
A7	Confirmation	A	03F1052-002.002	CO39-006	Gamma	14596-10-2	Americium-241	4.90E+00		42.83	pCi/g	
A8	Confirmation	A	03F1051-002.002	CO39-007	Gamma	14596-10-2	Americium-241	3.70E+00		33.14	pCi/g	
A9	Confirmation	A	03F1051-001.001	CO39-008	Gamma	14596-10-2	Americium-241	6.59E-01		8.56	pCi/g	
A	Biased	A	03F1052-004.002	CO39-026	Gamma	14596-10-2	Americium-241	2.70E+00		25.06	pCi/g	Located in Cell A4
A	Random	A	03F1047-006.001	CO39-009	Gamma	14596-10-2	Americium-241	9.30E-01		10.75	pCi/g	
A1	Field Duplicate	A	03F1047-005.002	ZZ99-113	Gamma	14596-10-2	Americium-241	5.20E-01		7.44	pCi/g	
B1	Confirmation	A	03F1050-003.001	CO39-012	Gamma	14596-10-2	Americium-241	7.28E-01	U	9.12	pCi/g	MDA substituted for result
B2	Confirmation	A	03F1050-001.001	CO39-013	Gamma	14596-10-2	Americium-241	5.10E+00		44.45	pCi/g	
B2	Conf. Verification	A	03F1052-004.002	CO39-027	Gamma	14596-10-2	Americium-241	6.81E-01	U	8.74	pCi/g	MDA substituted for result
B3	Confirmation	A	03F1049-001.001	CO39-018	Gamma	14596-10-2	Americium-241	7.75E-01	U	9.50	pCi/g	MDA substituted for result
B4												
B5												
B6												
B7												
B8												
B9												
B	Biased											
B	Random	A	03F1050-002.001	CO39-025	Gamma	14596-10-2	Americium-241	9.00E-01		10.51	pCi/g	
B1	Field Duplicate	A	03F1050-004.001	CO39-012	Gamma	14596-10-2	Americium-241	7.56E-01	U	9.35	pCi/g	MDA substituted for result
L1												
L2												
L3												
L4	Confirmation	A	03F1053-003.002	CO38-027	Gamma	14596-10-2	Americium-241	8.20E+01		665.80	pCi/g	
L5	Confirmation	A	03F1053-002.002	CO38-026	Gamma	14596-10-2	Americium-241	1.60E+01		132.52	pCi/g	
L6	Confirmation	A	03F1053-001.002	CO38-025	Gamma	14596-10-2	Americium-241	5.70E+02		4608.84	pCi/g	
L7												
L8												
L9												
L	Biased											
L	Random	A	03F1053-004.002	CO38-026	Gamma	14596-10-2	Americium-241	2.50E+01		205.24	pCi/g	
L	Field Duplicate											

U - Analyzed but not detected/Not detected above MDA via gamma spectroscopy

## Serreze, Susan

---

**From:** Bemski, Mike  
**Sent:** Monday, December 23, 2002 5:16 PM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-23-02

### Activities completed on 12-23-02

- Completed clean dirt ramp through L8 and L5 to allow excavator access to remove an additional foot of soil from L4 and L6.
- Completed preparation of Tent I in its new location.
- Improved soil bank condition along north perimeter.

### Planned activities for 12-24-02

- Limited crew is expected due to proximity of the Christmas holiday. No excavation will take place. All work will be associated with housekeeping, training, and preparation for further excavation on Thursday.

Mike Bemski

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Email [mike.bemski@rfets.gov](mailto:mike.bemski@rfets.gov)

## Serreze, Susan

---

**From:** Bemski, Mike  
**Sent:** Thursday, December 26, 2002 6:44 AM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-24-02

### Activities completed on 12-24-02:

- Limited crew in attendance with holiday coming.
- No excavation work took place.
- Work included housekeeping/clean-up and training.

### Activities planned for 12-26-02:

- Excavation restart, with completion of ramp through L8 and L5.
- Excavate 1 foot from L6, L4, and L7, in that order.
- Collect associated samples.

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**Serreze, Susan**

---

**From:** Bemski, Mike  
**Sent:** Thursday, December 26, 2002 5:45 PM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-26-02

Activities completed on 12-26-02:

- Completed re-excavation of one foot of soil at L4 and L6 and collected confirmation samples.
- Approximately 75% complete excavation at L7.
- Continued backfill and sealing of Tent I.
- Work was shut down at 1410 by high wind.

Activities planned for 12-27-02:

- Complete excavation of L7 and take confirmation sample.
- Review analytical results from L4 and L6 to determine further excavation requirements, if any.
- Commence re-excavation of L8 and L5 following completion of adjacent squares.

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**Serreze, Susan**

---

**From:** Bemski, Mike  
**Sent:** Friday, December 27, 2002 5:55 PM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Update 12-27-02

Activities completed on 12-27-02:

Results received this morning from confirmation samples taken following the re-excavation of one foot of soil at L4 and L6 indicated that contamination was still present above the action level. Preliminary results are as follows: L6=13.3 pCi/g Am, L4=85.9 pCi/g Am. An additional 6 inches of soil was removed from L4 and L6 and confirmation samples retaken. Total depth at L4 and L6 now stands at approximately 4.5 feet, with 2.5 of soil removed.

L7 was excavated to a similar depth and a confirmation sample taken.

Removal of the dirt ramp through L5 was in process when a wind shut down was experienced at 1310. Windy conditions did not allow for tent re-entry.

Also, ballasts on north side of Tent I (the inactive tent) were reoriented.

Activities planned for Monday, 12-30-02:

Preliminary results from confirmation samples at L4, L6, and L7 are expected early Monday morning which will be used to determine further excavation needs at those cells. If required, excavation will start with that (those) cell(s).

The soil ramp through L5 and L8 will be removed. This will be followed by the removal of 1.5 ft. of native soil beneath the ramp. The removal will bring the depth of L5 and L8 to a similar depth as L4, L6 and L7. A confirmation sample will then be collected at L5 and L8.

When excavation is complete, the 6 western cells of Tent II will be backfilled and work will be set up to start on the 6 eastern cells.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Tuesday, December 31, 2002 6:35 AM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Update 12-30-02

### Activities completed on 12-30-02:

- Received preliminary excavation confirmation gamma spec results for cells L4 (0.478 pCi/g Am-241), L6 (1.6 pCi/g Am-241) and L7 (0.93 pCi/g Am-241). Based on the preliminary data, the calculated Pu-239/240 results are below the 50 pCi/g threshold for Pu-239/240. The total depth of the L4, L6 and L7 excavations (and the corresponding confirmation sample locations) is approximately 4.5 feet below the former asphalt surface. Approximately 2.5 feet of native soil was removed beneath the asphalt/gravel base at L4, L6 and L7.
- The soil ramp through cells L5 and L8 was removed and approximately 1.5 feet of native soil beneath the ramp material was excavated. The ramp material (clean roadbase gravel) was placed into intermodal waste containers with the native soils (10 total). The total depth of the L5 and L8 excavations is approximately 4.5 feet.
- Collected excavation confirmation samples at cell L5 and L8 for onsite gamma spec analysis. Also collected one random confirmation sample and one EPA split sample at cell L5.

### Activities planned for Monday, 12-30-02:

- Receive excavation confirmation sample gamma spec results for cells L5 and L8.
- Backfill cells L4, L5, L6, L7 L8 and L9.
- Prepare to de-mobilize and transfer equipment from Tent II into Tent I. Excavation of the six cells M1-M6 will not be performed under the present Tent II location as previously planned. Instead, excavation will begin later in the week at the new Tent I location after the equipment transfer and Tent I setup is completed. Tent I is positioned over cells B4-B9 and C1-C6. Cells M1-M6 will be remediated at a later time in accordance with the original tent relocation plan.

Have a good day.

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**Environmental Restoration, T124A**  
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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Thursday, January 02, 2003 5:58 AM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 12-31-02

### Activities completed on 12-31-02:

- Received preliminary analytical results for confirmation samples collected at cells L5 and L8, following excavation of an additional 1.5 feet of native soil. The preliminary results indicate that contamination is still present above the 50 pCi/g threshold for Pu-239/240: The preliminary gamma spec results are as follows: L5 2nd confirmation sample = 8.41 pCi/g Am-241, L5 2nd Random confirmation sample = 45.8 pCi/g Am-241, L8 2nd confirmation sample = 43.5 pCi/g Am-241. Final analytical reports will be available Thursday, January 2.

A total of approximately 3 feet of native soil was removed beneath the asphalt/gravel base at cells L5 and L8. The total depth of the L5 and L8 excavations is approximately 4.5 feet below the 903 Pad asphalt surface.

To further assess the contamination levels with depth, it was decided that additional samples would be collected at the previously sampled confirmation and random sample locations at cells L5 and L8. A manual slide-hammer would be used to collect a 2-foot interval core sample at each location. The upper and lower 12-inch intervals of the 2-foot core sample would be analyzed separately by gamma spec analysis.

Due to the hard soil and rocky conditions, it was not possible to drive the sampler to the 2-foot depth at any of the sample locations. A core sample was collected to a depth of 15 inches at the L5 confirmation sample location and to a depth of 6 inches at the L5 random sample location (after two attempts). Two discrete samples were prepared from the L5 confirmation core sample. One from 0 to 12 inches and one from 12 to 15 inches. In cell L8, a core sample was collected to a depth of 7 inches at the confirmation sample location after two attempts to drive the sampler. A random sample was also collected in L8, but only to a depth of 8 inches due to refusal. All samples will be analyzed by gamma spec analysis. The analytical results are expected by 12:00 pm Thursday, 01-02-03 and will be used to make backfill decisions.

- Removed contaminated soil spilled on the asphalt surface during excavation operations. This effort will continue on 01-02-03.
- Decontaminated the excavator and forklift and released the equipment from the tent for routine maintenance.

### Activities planned for Thursday, 01-02-03:

- Receive excavation confirmation sample gamma spec results for the core samples collected in cells L5 and L8.
- Backfill cells L4, L5, L6, L7, L8 and L9.
- Prepare to de-mobilize and transfer equipment from Tent II into Tent I. Excavation of the six cells M1-M6 will not be performed under the present Tent II location as previously planned. Instead, excavation will begin later in the week at the new Tent I location after the equipment transfer and Tent I setup is completed. Tent I is positioned over cells B4-B9 and C1-C6. Cells M1-M6 will be remediated at a later time when a tent is positioned in accordance with the original tent relocation plan.

Please call if you have any questions. Have a good day.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Friday, January 03, 2003 8:33 PM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-02-03

### Activities completed on 01-02-03:

- Received preliminary confirmation sample gamma spec results for the core samples collected at cells L5 and L8. The preliminary results indicate that contamination is still above the 50 pCi/g threshold for Pu-239/240. The preliminary results are as follows:

L5 - 3rd confirmation sample (0 to 12") = 6.91 pCi/g Am-241, (12 to 15") = 1.19 pCi/g Am-241;  
L5 - 3rd random sample (0 to 6") = 20.4 pCi/g Am-241;  
L8 - 3rd confirmation sample (0 to 7") = 1.8 pCi/g Am-241;  
L8 - 1st random sample (0 to 8") = 196 pCi/g Am-241.

Final results will be available Monday, January 6. Following consultation with the EPA on 01-02-03, the decision was made to excavate an additional 2 feet of native soil at the cell L8 random sample location and collect one sample at the bottom of the excavation for analysis by gamma spec. Based on the L5 - 3rd confirmation sample and random sample gamma spec results and the decrease in activity with depth at both L5 sample locations, EPA agreed with the decision to discontinue excavation and backfill cell L5.

- Removed two excavator buckets of native soil to approximately 3 feet at the L8 random sample location (2 excavator buckets side-by-side). The new excavation is approximately 4' x 4' x 3' deep. A sample was collected at the base of the excavation using a hand auger (see attached photos). The total depth below the 903 Pad asphalt surface at this sample location is approximately 8 feet. Note: A total of approximately 6 feet of native soil was removed beneath the asphalt/gravel base at this location.



Cell L8 Random  
Redig.rtf (1 MB...

### Activities completed on 01-03-03:

- Received preliminary gamma spec results for the re-excavated L8 random sample location. The preliminary Am-241 result is 46.2 pCi/g. Based on the decrease in activity with depth at both L8 sample locations, EPA agreed with the decision to discontinue excavation and backfill cell L8.

Cells L4, L5, L6, L7, L8 and L9 will be backfilled once Tent II is de-posted.

- During inspection of the tent ventilation air mover system prior to the morning entry, lower than normal air flow was detected from one of the two air mover motors. The system was shutdown for inspection. Electrical tests identified one of the power supply wiring connections shorted out causing damage to the motor. The motor will need to be replaced. This prevented the entry into Tent II to prepare to de-mobilize and transfer equipment from Tent II to Tent I. This also delayed backfilling operations in Tent II. A new motor is on order for replacement on Saturday.

### Activities planned for Monday, 01-06-03:

- Backfill cells L4, L5, L6, L7, L8 and L9.
- Prepare to de-mobilize and transfer equipment from Tent II into Tent I. Excavation of the six cells M1-M6 will not be performed under the present Tent II location as previously planned. Instead, excavation will begin later in the week at the new Tent I location after the equipment transfer and Tent I setup is completed. Tent I is positioned over cells B4-B9 and C1-C6. Cells M1-M6 will be remediated at a later time when a tent is positioned in accordance with the original tent relocation plan.

Please call if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
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**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Tuesday, January 07, 2003 6:31 AM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-06-03

Activities completed on 01-06-03:

- Installed new motor on tent ventilation system.
- Placed road-base gravel on east and west sides of 903 Pad for future east-west tent pulls.
- Removed residual contaminated soil from small area on the asphalt surface (with HEPA vacuum) inside Tent II.
- Cleared wind-blown trash and debris inside the SCAs around the 903 Pad area.

Activities planned for Tuesday, 01-07-03:

- Perform air sampling and surveys inside Tent II and de-post Tent II.
- De-mobilize and transfer equipment from Tent II into Tent I.
- Backfill cells L4, L5, L6, L7, L8 and L9 inside Tent II.

Please call if you have any questions.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Wednesday, January 08, 2003 5:57 AM  
**To:** Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Cc:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Subject:** 903 Pad Update 01-07-03

### Activities completed on 01-07-03:

- Collected samples from the suspect layer if soil exposed during excavation of cells L4 - L9. Samples were collected from the north, west and south sidewalls of the excavation for gamma spec analysis. The dark brown to black uniform layer is located immediately beneath the asphalt/gravel base and is approximately 10 to 12 inches thick. The sample team geologist described the layer as a dark brown clayey gravel soil with no indications of a release of oil or solvent. No VOCs were detected during sampling or during excavation of the layer.
- De-posted Tent II and transferred equipment from Tent II to Tent I.
- Backfilled approximately 80% of the cell L4 - L9 excavation in Tent II.
- Setup equipment inside/outside of Tent I, smoke-tested Tent I for proper ventilation air flow, and posted Tent I for excavation activities.
- Began removal of asphalt from cells B5 and B6.

### Activities planned for Wednesday, 01-08-03:

- Continue asphalt removal from cells B5 and B4.
- Begin soil removal at cells B4, B5 and B6.
- Collect excavation confirmation samples.
- Prepare Tent II for relocation on the pad.

Please call me if you have any questions. Have a good day.

**Tracey Spence**  
**Environmental Restoration, T124A**  
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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Thursday, January 09, 2003 5:54 AM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-08-03

### Activities completed on 01-08-03:

- Removed asphalt at cells B5 and B4.
- Excavated native soil to one foot beneath the asphalt/gravel base at B4, B5 and B6. Total depth below the asphalt surface in the B4 - B6 excavation ranges from 3 to 3.5 feet. The gravel layer above the native soil varies in thickness from roughly 1.5 to 2 feet thick. Filled 11 intermodal waste containers (one asphalt, ten soil).
- Collected excavation confirmation samples in B4, B5 and B6.
- Completed backfill of the L4 - L9 excavation in Tent II.
- Prepared Tent II for next tent move.
- Received preliminary gamma spec results for samples collected from sidewalls of the black layer of soil encountered during excavation of cells L4 - L9. The preliminary results are as follows:

North sidewall:	66.7 pCi/g Am-241
South sidewall:	138 pCi/g Am-241
West sidewall 1:	291 pCi/g Am-241
West sidewall 2:	351 pCi/g Am-241

### Activities planned for Thursday, 01-09-03:

- Remove asphalt and excavate soil from cells B7, B8 and B9.
- Collect excavation confirmation samples.
- Pull Tent II to east edge of 903 Pad. Tent II will be pulled to the east edge of the pad and approximately 5 feet to the north for alignment.

Please call me if you have any questions.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Monday, January 13, 2003 6:07 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-10-03

### Activities completed on 01-09-03:

- Tent II was pulled to the east edge of the 903 Pad over cells N7 - N9 and cells O1 - O9.
- Removed asphalt and soil from cells B7, B8 and B9.
- Work was suspended due to the near miss event inside the active remediation Tent I.

### Activities completed on 01-10-03:

- Field activities were limited to shipping six filled intermodal waste containers off-site to Envirocare and securing the project site.
- A fact finding meeting was held to determine the cause of the near miss occurrence. Corrective actions were identified and must be completed and approved prior to restarting work.

### Activities planned for Monday, 01-13-03:

- Complete pre-start corrective actions:
  - 1) Re-assign radios to personnel inside the tent.
  - 2) Brief waste management crew on the need to clean intermodal containers prior to transfer into the tent.
  - 3) Revise JHA to add requirement to establish a clear path prior to moving loads inside (and outside) the tent. Brief workers on changes.
  - 4) Assign alternate spotter to areas with limited space and visibility.
  - 5) Discuss event with entire crew as a Lessons Learned. Discuss expectations for stopping work and notifying management and types of incidents that require notification.
  - 6) Update ER Notification List.

The pre-start corrective actions are expected to be completed by COB today. Work would then resume on Tuesday, 01-14-03 once all corrective actions are approved. Please call me if you have any questions.

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**Serreze, Susan**

---

**From:** Spence, Tracey  
**Sent:** Wednesday, January 15, 2003 6:18 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-13-03

This update is late because I didn't click the Send button yesterday.

Activities completed on 01-13-03:

- Completed corrective action items.

Activities planned for Tuesday, 01-14-03:

- Obtain authorization to restart remediation operations. Once the restart authorization is received, excavation will resume on cells B4, based on elevated confirmation sample results, and on cells B8 and B9.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Wednesday, January 15, 2003 6:47 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-14-03

### Activities completed on 01-14-03:

- Received authorization to resume operations.
- Made one afternoon entry into Tent I to resume excavation at cells B4 and B9.
- Removed two previously filled intermodal containers from Tent I.
- Operations were suspended due to the following event:

A lowboy tractor trailer was being backed towards the east tent rollup door to transfer an empty intermodal waste container into the tent. The trailer was stopped when the spotter on the outside of the tent observed that the tent rollup door was not raised high enough for the intermodal to clear the bottom of rollup door. The spotter signaled the driver to stop. According to the spotter, the intermodal came to within 8 to 10 feet from the door before the trailer was stopped. The spotter suspended operations inside and outside the tent. The tent crew exited the tent and a meeting was held to discuss the cause of the event.

According to the spotter inside the tent, he signaled the person operating the electric rollup door opener to stop too soon. The door did not raise high enough for an intermodal loaded on the trailer to clear the bottom of the rollup door. The spotter inside the tent signaled the driver of the trailer to begin backing into the tent. As the trailer moved toward the tent, both the spotter inside the tent and the spotter outside the tent observed that the door needed to be raised higher and signaled the driver to stop. The driver saw the signal from the outside spotter first and stopped the trailer.

The spotter inside the tent stated that he simply did not allow the door to raise high enough before signaling the driver. It should be noted that there are lines painted on the door frame of both weather tents to indicate the door position for backing intermodals into and out of the tent. The lines have faded since they were painted on the tents and are not as evident when viewed from inside the tent. The decision was made to repaint the door marks on both tents. The spotters responsible for opening and closing the rollup door (on the outside as well as on the inside of the tent) were asked to be more vigilant and to check that the door is raised to the mark painted on the tent frame before signaling the trailer into and out of the tent. No changes were made to the operation.

Normal operations are scheduled to resume on 01-15-03.

### Activities planned for Wednesday, 01-15-03:

- Re-excavate cell B4. The Final gamma spec result for the B4 confirmation sample = 150 pCi/g Am-241. This sample was collected at a total depth of 3 feet below the asphalt surface (18 inches below the asphalt/gravel base). The first B4 confirmation sample result = 140 pCi/g Am-241. The plan is to remove an additional 18 inches of soil from cell B4 and collect the third confirmation sample.
- Continue excavation at cells B8 and B9, starting with cell B9.
- Collect confirmation samples from B9 and B8, if time allows.

Have a good day.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Thursday, January 16, 2003 6:13 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-15-03

### Activities completed on 01-15-03:

- De-posted Tent I to repaint lines on the rollup doorframe.
  - Excavated an additional 18 inches of native soil from cell B4 and collected a third confirmation sample. The third sample was collected 3 feet below the asphalt/gravel base (total depth below asphalt surface = 4.5 feet).
  - Removed asphalt at cell B9. Filled one intermodal with asphalt.
  - Loaded 7 previously filled intermodal containers onto flatbed trailers for off-site shipment on 01-16-03.
- Note: Work was delayed approximately 3.5 hours due to high winds.

### Activities planned for Thursday, 01-16-03:

- Receive gamma spec results for the third B4 confirmation sample.
- Complete removal of asphalt at cell B9 and excavate native soil to one foot below the asphalt/gravel base.
- Collect B9 confirmation sample.
- Remove asphalt and excavate cell B8.
- Collect B8 confirmation sample. Note: An alpha spec sample will be collected in addition to the gamma spec sample at cell B8.

Please call me if you have any questions.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Friday, January 17, 2003 6:37 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-16-03

### Activities completed on 01-16-03:

- Received preliminary gamma spec results for the 3rd cell B4 confirmation sample. The preliminary result for Am-241 is 1.40 pCi/g. The 3rd B4 confirmation sample was collected 3 feet below the asphalt/gravel base at a total depth of 4.5 feet below the asphalt surface.
- Replaced the tent ventilation system pre-filters. Subsequently, no morning tent entry was made.
- Completed removal of asphalt and soil (to one foot below the asphalt/gravel base) at cell B9.
- Collected the B9 confirmation sample.
- Removed asphalt from cell B7.
- Filled 4 intermodal waste containers with soil and 2 intermodal containers with asphalt.

### Activities planned for Friday, 01-17-03:

- Receive gamma spec results for the cell B9 confirmation sample.
- Complete excavation of cells B7 and B8.
- Collect B7 and B8 confirmation samples. Note: In addition to the gamma spec confirmation sample, one additional sample will be collected at cell B8 for off-site alpha spec analysis.
- Continue setup of Tent II for the next excavation. Note: Sometime next week and prior to excavating inside Tent II, a trial run of the blending operations will be performed on two previously filled intermodal containers with soil above the Envirocare waste profile limit. This operation will be performed as originally planned by transferring and blending the high activity soil with low activity soil (from the 903 Pad) in a new intermodal container using the excavator bucket. I will provide more information next week.

Please call me if you have any questions.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Friday, January 17, 2003 4:40 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bernski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-17-03

### Activities completed on 01-17-03:

- Received preliminary gamma spec results for the cell B9 confirmation sample. The preliminary B9 sample result is 5.36 pCi/g Am-241 at 12 inches below the asphalt/gravel base. The depth below the asphalt surface is 2.5 feet.
- Completed excavation of cells B7 and B8.
- Collected excavation confirmation samples from cells B7 and B8.
- Filled 2 intermodal containers with asphalt and 10 containers with soil.
- Shipped 10 previously filled intermodal containers off-site to Envirocare.

### Activities planned next week:

- Based on the final gamma spec analyses, complete excavation (if needed) and backfill cells B4, B5, B6, B7, B8 and B9.
- Excavate cells C1, C2 and C3 inside Tent I after backfilling the above listed B cells.
- Prepare Tent I for move one cell width to the east (over cells C4 - C9 and D1 - D6). Note: Only 9 cells will be excavated at the current Tent I location (B4, B5, B6, B7, B8, B9, C1, C2, C3). Twelve cells will be excavated inside each of the next two tent locations on the north edge of the pad.
- Conduct blending operation trial run on two intermodal containers with soil activity levels elevated above the Envirocare waste profile. This will be performed inside Tent II prior to excavation by transferring a specified amount of soil with high activity (by weight) directly into an empty intermodal and then adding a specified amount of soil (by weight) with low activity. The soils will be blended inside the intermodal with the excavator bucket.

Please call me if you have questions.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Tuesday, January 21, 2003 6:15 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-20-03

### Activities completed on 01-20-03:

- Received final gamma spec results for the cell B9 confirmation sample. The final B9 sample result is 6.38 pCi/g Am-241. This sample was collected 12 inches below the asphalt/gravel base. The depth below the asphalt surface at cell B9 is 2.5 feet.
- Based on the final B9 sample result, an additional 6 inches of native soil was excavated from cell B9. A second confirmation sample was collected at 3 feet below surface.
- Received preliminary gamma spec results for the cell B7 and B8 confirmation samples collected on 01-17-03. The preliminary results are 0.73 pCi/g Am-241 for B7 and 340 pCi/g Am-241 for B8. The B7 and B8 samples were collected 12 inches below the asphalt/gravel base, approximately 2.5 feet below the asphalt surface.
- Based on the preliminary result for cell B8, an additional 12 inches of native soil was excavated from cell B8. A second confirmation sample was collected at 3.5 feet below surface.
- No additional soil was excavated from cell B7.

### Activities planned on Tuesday, 01-21-03:

- Receive gamma spec results for the second confirmation samples collected from cells B8 and B9.
- Based on the final gamma spec analyses, complete excavation (if needed) and backfill cells B4, B5, B6, B7, B8 and B9.
- Excavate cells C1, C2 and C3 inside Tent I after backfilling the B cells listed above.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Wednesday, January 22, 2003 6:49 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-21-03

### Activities completed on 01-21-03:

- Received final gamma spec results for the first cell B7 and B8 confirmation samples. The final results are 0.90 pCi/g Am-241 for B7 and 415 pCi/g Am-241 for B8. These B7 and B8 samples were collected 12 inches below the asphalt/gravel base, approximately 2.5 feet below the asphalt surface.
- Received preliminary gamma spec results for the second B9 confirmation sample. The result is 0.30 pCi/g Am-241. The second B9 confirmation sample was collected 18 inches below the asphalt/gravel base, approximately 3 feet below the asphalt surface. No additional soil will be removed at cell B9.
- Received preliminary gamma spec results for the second cell B8 confirmation sample collected approximately 2 feet below the asphalt/gravel base. The result is 17.7 pCi/g Am-241.
- Based on the second preliminary gamma spec result for cell B8, an additional 12 inches of native soil was excavated from cell B8.

Note: During excavation at cell B8, the lowboy trailer loaded with an empty intermodal bumped the track of the excavator as it was being backed into the 903 Pad tent. Operations were suspended and a manager's meeting was held. No visible damage was observed on the trailer or the excavator.

### Activities planned on Wednesday, 01-22-03:

- Complete excavation of cell B8.
- Collect the third confirmation sample from cell B8.
- Depost the Tent I and begin backfilling cells B4, B5, B6.

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## Serreze, Susan

---

**From:** Spence, Tracey  
**Sent:** Thursday, January 23, 2003 6:11 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-22-03

### Activities completed on 01-22-03:

- Completed excavation of additional 12 inches of native soil at cell B8.
- Collected the 3rd confirmation sample from cell B8 at 3 feet below the asphalt/gravel base, approximately 4.5 feet below the asphalt surface.
- Prepared to deposit Tent I.

### Activities planned on Thursday, 01-23-03:

- Based on gamma spec results for the 3rd confirmation sample collected from cell B8, deposit Tent I.
- Install exhaust scrubbers on excavator and forklift used inside the tent.
- Backfill cells B4, B5, B6, B7, B8 and B9.
- Begin excavation of cells C1, C2, and C3, if time allows.

Please call me if you have any questions.

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## Serreze, Susan

---

**From:** Bemski, Mike  
**Sent:** Friday, January 24, 2003 6:44 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Pad Update 01-23-03

### Activities completed on 01-23-03:

- Tent I deposted.
- Backfill of western half of Tent I nearly completed (cells B4-B9).
- 903 project site perimeter silt fence was repaired and replaced as needed, along with additional gravel placement.
- Scrubbers were installed on heavy equipment used inside the tent. This should reduce particulate emission and reduce the frequency filter change out on the ventilation system.
- The second ventilation system was brought to the project site and preparation has started to incorporate it into regular use.
- Maintenance and minor repair was completed on certain heavy equipment and the active ventilation system generator.
- Lines were repainted for better visual definition inside tent II.
- Plans were reviewed for a one-day blending operation expected to take place next week prior to the beginning of excavation inside Tent II.
- The crew was notified of a large CH2M Hill tour expected mid-morning on Monday, 01/27.

### Activities planned on Thursday, 01-24-03:

- Complete backfill cells B4, B5, B6, B7, B8 and B9.
- Begin excavation of cells C1, C2, and C3.
- Ship and receive intermodals.

Please call me if you have any questions.

Mike Bemski

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## Serreze, Susan

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**From:** Bemski, Mike  
**Sent:** Friday, January 24, 2003 6:05 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Pad Update 01-24-03

### Activities completed on Friday, 01-24-03:

- Backfill of western half of Tent I was completed (cells B4-B9).
- 903 project site perimeter silt fence was sandbagged along its length.
- Scrubbers were installed on 3 pieces of heavy equipment used outside the tent.
- Preparation continues on the second ventilation system.
- 5 Intermodals were staged for Monday shipment.
- Final preparation of Tent I was completed for continuation of excavation, including final leveling and compaction of backfill, relocation of step-off Conex, installation of accordion door, placement of equipment, and relocation of air bottles, generators, and fire extinguishers.
- Continued to prepare Tent II for selective repackaging of intermodals.

### Activities planned on Monday, 01-27-03:

- Tent will be posted.
- Begin excavation of cells C1, C2, and C3.
- Ship and receive intermodals.
- A CH2M-Hill tour is expected mid-morning.
- Continue set-up of new ventilation system.
- Continue set-up of new step-off Conex.

Please call me if you have any questions.

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## Serreze, Susan

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**From:** Broussard, Marcella  
**Sent:** Monday, January 27, 2003 4:10 PM  
**To:** Serreze, Susan  
**Subject:** FW: 903 Pad Update 01-23-03

-----Original Message-----

**From:** Bemski, Mike  
**Sent:** Friday, January 24, 2003 6:44 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella  
**Cc:** Burmeister, Mark; Demos, Nick; Miller, George; Paris, Steve; Spence, Tracey  
**Subject:** 903 Pad Update 01-23-03

Activities completed on 01-23-03:

- Tent I deposted.
- Backfill of western half of Tent I nearly completed (cells B4-B9).
- 903 project site perimeter silt fence was repaired and replaced as needed, along with additional gravel placement.
- Scrubbers were installed on heavy equipment used inside the tent. This should reduce particulate emission and reduce the frequency filter change out on the ventilation system.
- The second ventilation system was brought to the project site and preparation has started to incorporate it into regular use.
- Maintenance and minor repair was completed on certain heavy equipment and the active ventilation system generator.
- Lines were repainted for better visual definition inside tent II.
- Plans were reviewed for a one-day blending operation expected to take place next week prior to the beginning of excavation inside Tent II.
- The crew was notified of a large CH2M Hill tour expected mid-morning on Monday, 01/27.

Activities planned on Thursday, 01-24-03:

- Complete backfill cells B4, B5, B6, B7, B8 and B9.
- Begin excavation of cells C1, C2, and C3.
- Ship and receive intermodals.

Please call me if you have any questions.

Mike Bemski

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## Spence, Tracey

**From:** Spence, Tracey  
**ant:** Tuesday, January 28, 2003 6:29 AM  
**o:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Spence, Tracey  
**Subject:** 903 Pad Update 01-27-03

### Activities completed on Monday, 01-27-03:

- Removed asphalt from cells C1, C2 and C3. Filled 2 intermodals with asphalt.
- Shipped 8 filled intermodal waste containers to Envirocare.
- Added roadbase to southeast corner of 903 Pad for future tent pull.
- Built "accordion" fabric door attachments for stepoff conex on Tent II.

Note: The morning entry was suspended due to high winds.

### Activities planned on Tuesday, 01-28-03:

- Continue excavation of cells C1, C2, and C3.
- Ship and receive intermodals.
- Continue set-up of new ventilation system.
- Continue set-up of new step-off Conex.

Please call me if you have any questions.

**Tracey Spence**  
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Activities completed on Wednesday, 01-29-03:

- Based upon confirmation sample being <50 pCi/G, completed removal of the inner soil strip immediately West of cell C3. Total depth of C3 is 3.0 ft.
- Removed soil from C2 and C1 and collected confirmation samples. Total depth of C2 and C1 are both approximately 27 inches deep.
- Filled 1 asphalt intermodal, started a dedicated concrete debris intermodal, and 10 soil intermodals.
- Completed wiring for second lonex air mover. Started the unit and conducting further tests.
- Continued electrical wiring of second new step-off conex.

Note: The concrete identified from C3 on 1-28-03 was placed into a dedicated intermodal container. The container will accept concrete debris waste only and will remain on the 903 Pad until shipping weight is reached.

Activities planned on Thursday, 01-30-03:

- Conduct DOP testing on second air mover.
- Receive confirmation samples from C2 and C1
- Excavate inner strip areas West of cells C1 and C2 if confirmation sampling permits.
- Ship and receive intermodals.
- Continue set-up of new ventilation system.
- Continue set-up of new step-off Conex.

Nick Demos

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Bldg. 116, Cube 69

## Spence, Tracey

**From:** Bemski, Mike  
**Sent:** Wednesday, January 29, 2003 6:59 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Spence, Tracey; Bemski, Mike  
**Subject:** 903 Pad Update 01-28-03

### Activities completed on Tuesday, 01-28-03:

- Completed removal of asphalt from C1, C2 and C3.
- Removed soil from C3 to one foot of native soil and collected confirmation sample.
- Filled 2 asphalt intermodals and 7 soil intermodals.
- Relocated new step-off conex.
- Completed gravel placement at southeast corner of work area for future tent pull requirements.

Note: Work was suspended at 9:20AM during the excavation of cell C3 when a concrete beam was encountered near the middle of the cell. A review by Rad Ops, Health and Safety, and the excavation specialists, and the DOE Fac Rep indicated that there was no risk in further excavation to determine the extent of the beam and what its former function was. Excavation resumed in the afternoon and the beam was found to continue to the east under the asphalt. It now appears to be a support for a former fence and possibly a gate in that location. It has been removed from C3 and we are awaiting instructions from Envirocare for its disposal.

### Activities planned on Wednesday, 01-29-03:

- Continue excavation on cells C1 and C2.
- Ship and receive intermodals.
- Continue set-up of new ventilation system.
- Continue set-up of new step-off Conex.

**Mike Bemski**

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## Spence, Tracey

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**From:**  
**Sent:**  
**To:**

Demos, Nick  
Thursday, January 30, 2003 6:46 AM  
Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov';  
Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlan.ainscough@state.co.us';  
Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose,  
Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt,  
Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan  
Burmeister, Mark; Demos, Nick; Paris, Steve; Spence, Tracey; Bemski, Mike  
**Subject:** 903 Pad Update 01-29-03



903 Pad Update  
01-29-03.rtf

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Friday, January 31, 2003 6:43 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-30-03

### Activities completed on Thursday, 01-30-03:

- Received preliminary gamma spec results for cell C1 (Am-241 = 12.1 pCi/g). Based on the preliminary result, excavated an additional 6 inches of native soil and collected a 2nd confirmation sample from cell C1.
- Received preliminary gamma spec results for the 2nd cell C1 confirmation sample (Am-241 = 4.53 pCi/g). The total depth of C1 is approximately 34 inches with 18 inches of native soil removed.
- Received preliminary gamma spec results for cell C2 (Am-241 = 3.19 pCi/g). The total depth of C2 is approximately 27 inches with 12 inches of native soil removed.
- Received final gamma spec results for cell C3 (Am-241 = 4.33 pCi/g). The total depth of C3 is approximately 3 feet with 12 inches of native soil removed.
- Continued electrical work on second new step-off conex.
- Received 2 and shipped 4 intermodal waste containers.

Note: The afternoon tent entry was suspended due to high winds.

### Activities planned on Friday, 01-31-03:

- Excavate inner strip areas west of cells C1 and C2.
- Receive final gamma spec results for the 2nd cell C1 confirmation sample.
- Decon equipment in Tent I, depost Tent I and begin backfilling cells C1, C2 and C3.
- Continue setup of Tent II for excavation and/or blending activities.
- Receive and ship intermodal waste containers.

Please call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Friday, January 31, 2003 5:51 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** FW: 903 Pad Update 01-31-03

My attempt to resend this with the wind delay information was not successful.

### -----Original Message-----

**From:** Spence, Tracey  
**Sent:** Friday, January 31, 2003 5:38 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 01-31-03

### Activities completed on Friday, 01-31-03:

- Received final gamma spec results for cell C2 (Am-241 = 4.15 pCi/g). The total depth of C2 is approximately 27 inches with 12 inches of native soil removed.
- Received final gamma spec results for the 2nd cell C1 confirmation sample (Am-241 = 5.89 pCi/g). The total depth of C1 is approximately 34 inches with 18 inches of native soil removed.
- Removed strip of asphalt and soil on east edge of cell B8. Soil was removed to 4.5 feet below the asphalt surface, consistent with depth of the west portion of cell B8 excavation.
- Repaired wind damaged silt fence around perimeter of site.
- Painted woodwork inside the new second step-off conex with fire retardant paint.

Note: The morning entry into the active remediation Tent I was suspended a 9:06 a.m. due to high winds. The afternoon entry startup was delayed until 1:00 p.m. and was suspended at 2:30 p.m. due to high winds.

### Activities planned on Monday, 02-03-03:

- Complete excavation of inner strip west of cell C1 (east edge of cell B7).
- Decon equipment in Tent I, depost Tent I and begin backfilling cells C1, C2 and C3.
- Continue setup of Tent II for excavation and/or blending activities.
- Receive and ship intermodal waste containers.

Please call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Friday, January 31, 2003 5:38 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara; Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Cc:**  
**Subject:** 903 Pad Update 01-31-03

### Activities completed on Friday, 01-31-03:

- Received final gamma spec results for cell C2 (Am-241 = 4.15 pCi/g). The total depth of C2 is approximately 27 inches with 12 inches of native soil removed.
- Received final gamma spec results for the 2nd cell C1 confirmation sample (Am-241 = 5.89 pCi/g). The total depth of C1 is approximately 34 inches with 18 inches of native soil removed.
- Removed strip of asphalt and soil on east edge of cell B8. Soil was removed to 4.5 feet below the asphalt surface, consistent with depth of the west portion of cell B8 excavation.
- Repaired wind damaged silt fence around perimeter of site.
- Painted woodwork inside the new second step-off conex with fire retardant paint.

Note: The morning entry into the active remediation Tent I was suspended a 9:06 a.m. due to high winds. The afternoon entry startup was delayed until 1:00 p.m. and was suspended at 2:30 p.m. due to high winds.

### Activities planned on Monday, 02-03-03:

- Complete excavation of inner strip west of cell C1 (east edge of cell B7).
- Decon equipment in Tent I, depost Tent I and begin backfilling cells C1, C2 and C3.
- Continue setup of Tent II for excavation and/or blending activities.
- Receive and ship intermodal waste containers.

Please call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
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**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

Activities completed on Wednesday, 02-03-03:

- Performed Snow removal activities.
- All confirmation samples below 50 pCi/g with exception of Cell C1 which was 50.8 pCi/g. EPA granted approval to backfill C1 and a Contact Record was prepared and transmitted.
- Removed remaining soil/asphalt from B7.
- Filled 1 asphalt intermodal, and 4 soil intermodals.
- Began Tent II de-posting activities and equipment removal (into Tent I).
- Completed DOP (dioctylphalate) testing for second Ionex air mover.
- Continued electrical wiring of second new step-off conex.
- Moved barricade entry approximately 110 ft to South of Central Ave. along dirt road between 903 and 904 Pads.

Activities planned on Thursday, 02-04-03:

- Collect samples from select intermodals for VOCs.
- Conduct smoke test within Tent II.
- Begin excavation within Tent II in the afternoon shift.
- Continue set-up of new step-off Conex.

**Nick Demos**

Environmental Restoration  
303-966-4605, FAX 966-5180  
Cell Phone 303-994-2524  
Bldg. 116, Cube 69

## Spence, Tracey

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**From:**  
**nt:**  
**to:**

Demos, Nick

Tuesday, February 04, 2003 6:54 AM

Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov';  
Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us';  
Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose,  
Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt,  
Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan  
Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; Paris, Steve  
903 Pad Update 02-03-03

**Cc:**  
**Subject:**



903 Pad Update  
02-03-03.rtf

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Wednesday, February 05, 2003 6:20 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-04-03

### Activities completed on Tuesday, 02-04-03:

- Moved 3 previously filled intermodal waste containers into Tent I and collected grab samples for VOA and gamma spec analyses. The analytical results will be used to assess if future 903 waste could be shipped to NTS for disposal.
- Decontaminated equipment inside Tent I and de-posted Tent I.
- Began backfill operations in Tent I.
- Moved equipment into Tent II.
- Removed step-off conex from Tent I and attached it to Tent II.
- Attached new air mover ducting to Tent II and conducted air flow smoke test inside Tent II.
- Staged 4 empty intermodal containers inside Tent II.
- Received empty intermodal containers from Envirocare. Shipped 4 filled intermodal containers to Envirocare.
- Moved gamma spec detector and equipment into 903B and setup for future gamma spec soil screening tests.

### Activities planned on Wednesday, 02-05-03:

- Begin asphalt removal and soil excavation inside Tent II, located over cells N7 - N9 and O1 - O9.
- Rig Tent I for next tent pull to the east over cells C4 - C9 and D1 - D6.

Please call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
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**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Thursday, February 06, 2003 6:28 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-05-03

### Activities completed on Wednesday, 02-05-03:

- Completed setup and received authorization to operate the gamma spec detector in 903B for screening soil samples.
- Removed asphalt from cells O7, O8 and O9 inside Tent II.
- Excavated native soil to 1 foot below the asphalt/gravel base. Total depth is 2.9 feet.
- Collected two confirmation screening samples from the O7 excavation. The screening results reported for Am-241 are 14.1 pCi/g and Non-detect.
- Excavated approximately 50% of native soil from cell O8.
- Filled 9 intermodal containers.

*Completed 90% backfill in Tent I - cells C1, C2, C3*

### Activities planned on Thursday, 02-06-03:

- Continue excavation of cells O8 and O9.
- Excavate additional soil from cell O7.
- Setup to move Tent I either today or tomorrow to the east over cells C4 - C9 and D1 - D6. This effort may be weather dependent.
- Continue excavation in Tent II using the gamma spec screening capability.

**Tracey Spence**  
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E-mail: tracey.spence@rfets.gov



## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Friday, February 07, 2003 6:10 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-06-03

### Activities completed on Thursday, 02-06-03:

- Excavated native soil to 1 foot below the asphalt/gravel base at cells O8 and O9 and collected excavation confirmation samples.
- Excavated additional 6 inches of native soil at cell O7.
- Collected excavation screening samples (gamma spec) from cells O7, O8, and O9. The corresponding confirmation samples from cells O7, O8, and O9 were sent to the onsite URS lab for gamma spec analysis. The lab results will be available by 7:30 a.m. 02-07-03. The screening results are as follows:

Cell	Am-241
O7 (2nd confirmation screen sample)	4.98 pCi/g
O7 (2nd random screen sample)	3.33 pCi/g
O8	6.25 pCi/g
O9	0.77 pCi/g

- Filled 8 intermodal containers.
- Received 6 empty intermodal containers.
- Shipped 6 filled intermodal containers to Envirocare.
- Rigged tow cables to Tent I for next tent pull.

### Activities planned on Friday, 02-06-03:

- Continue excavation inside Tent II (cells O4, O5, and O6).
- Weather permitting, tow Tent I to the east over cells C4 - C9 and D1 - D6.
- Ship and receive intermodal containers.

Please call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Int:** Sunday, February 09, 2003 2:09 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-07-03

### Activities completed on Friday, 02-07-03:

- Removed asphalt from cells O5 and O6.
- Excavated native soil to 12 inches below asphalt/gravel base at cell O6. The total depth of cell O6 is approximately 23 inches.
- Excavated an additional 6 inches of native soil from cell O8. The total depth of O8 is approximately 3 feet with 12 inches of native soil removed.
- Collected confirmation screening samples (gamma spec) from cells O6 and O8. The O8 screen sample result for Am-241 is nondetect. The O6 screen sample result for Am-241 is 1.8 pCi/g. Gamma spec Lab sample results for O6 and O8 will be available Monday, February 10.
- Filled 11 intermodal waste containers.
- Received 4 empty intermodal containers from Envirocare and shipped 5 filled intermodal containers to Envirocare.
- Encountered a 3-foot long piece of (plastic insulated) electrical wire in cell O6. The wire was handled as waste debris. No contamination was detected on the wire.
- Performed snow removal on north side of Tent I in preparation for the next tent pull.
- Performed unloading and loading tests of an empty intermodal waste container with a rolloff transport truck. The rolloff truck is being considered for handling filled intermodal containers inside the tent during blending operations.

**Note:** At approximately 1445 hours an unoccupied personnel van rolled into the west rollup doorframe of Tent I. The tent was unoccupied and there was no significant damage to the tent or the van. No personnel were in the area. The van was left parked near the tent with the engine running. The van was being used to warm equipment and personnel due to the cold outside temperature. The crew was directed not to leave vehicles with the engine running unattended. The van will be sent to the dealer for inspection.

### Activities planned on Monday, 02-10-03:

- Continue excavation inside Tent II (cells O3, O4, O5).
- Tow Tent I to the east over cells C4-C9 and D1-D6.

Please contact Mike Bemski on Monday, 02-10-03 if you have any questions. I will be out of the office all day Monday.  
Mike's office: 303-966-4090, cell: 303-994-2305

Thanks,

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Bemski, Mike  
**Sent:** Tuesday, February 11, 2003 6:41 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-10-03

### Activities completed on Monday, 02-10-03:

- Performed removal of wind blown snowdrifts.
- Completed excavation of cell O5 and removed asphalt from cell O4.
- Loaded 6 intermodal waste containers.
- Collected excavation confirmation samples from cell O5.
- Completed preparation of 2<sup>nd</sup> Step-off conex.
- Over three hours of production time lost to wind shutdowns. All intermodal movement on- and off-site were stopped. All shipments of roadbase were stopped.
- Placed stockpile of roadbase for backfill of cells in Tent II.

### Activities planned on Tuesday, 02-11-03:

- Pull Tent I to the east for the length of one tent (weather permitting).
- Rearrange Tent II to allow for continued excavation.
- Finish excavation of cell O4 in Tent II and excavate cell O3.
- Backfill excavated portion of Tent II.
- Tour at 12:30 with Labor Relations/Labor Safety.

**Mike Bemski**

Environmental Restoration

303-966-4090, FAX 966-4165

Cell Phone 303-994-2305

dp 303-212-6271, Bldg. T-124-A, Cube 38

Email [mike.bemski@rfets.gov](mailto:mike.bemski@rfets.gov)

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Wednesday, February 12, 2003 6:40 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-11-03

### Activities completed on Tuesday, 02-11-03:

- Completed excavation of cell O4.
- Excavated an additional 6 inches of native soil from cell O5, based on the preliminary gamma spec result for the O5 sample collected on 02-10-03 (25 pCi/g Am-241). A screen sample was collected at O5 following removal of the additional 6 inches of soil and analyzed by gamma spec at 903B. The O5 screen sample result for Am-241 is 2.55 pCi/g. The screen sample was delivered to the URS lab for gamma spec analysis. Results will be available by 7:30 a.m. today.
- A screen sample was collected at O4 following removal of 12 inches of native soil beneath the asphalt/gravel layer. The O4 screen sample gamma spec result for Am-241 is 78.7 pCi/g. Based on the screen sample result, additional soil will be removed from cell O4.
- Filled 5 intermodal waste containers.
- Shipped 7 intermodal containers to Envirocare.
- Moved Tent I to the east over cells C4-C9 and D1-D6.

Note: No morning tent entry was made due to high winds.

### Activities planned on Wednesday, 02-12-03:

- Excavate additional 12 inches of native soil at cell O4.
- Continue excavation in Tent II (cell O3).
- Prepare to backfill in Tent II.
- Setup Tent I for excavation.
- Receive empty intermodal containers.

Please call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Int:** Thursday, February 13, 2003 6:58 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-12-03

### Activities completed on Wednesday, 02-12-03:

- Excavated an additional 12 inches of native soil from cell O4. A screen sample was collected at O4 following removal of the additional 12 inches of soil and analyzed by gamma spec at 903B. The O4 screen sample result for Am-241 is 8.3 pCi/g.
- Excavated an additional 6 inches of native soil from cell O4. A screen sample was collected at O4 following removal of the additional 6 inches of soil and analyzed by gamma spec at 903B. The O4 screen sample result for Am-241 is 0.0 pCi/g (non-detect).
- Completed excavation of the approximately 5 foot wide strips of soil and asphalt on the west edges of cells O4, O5 and O6. These strips are left in place until it is known that the excavator will not be positioned to re-excavate the cell.
- Filled 8 intermodal containers with soil.
- Collected soil samples for VOA analysis from 4 of the 8 intermodal containers for re-evaluating the 903 Pad waste profile. These samples will be used in addition to future samples collected from the intermodals with contamination above the waste profile limit. I will provide more information on this evaluation tomorrow.
- Setup Tent I for excavation beginning on 02-13-03.
- Decon heavy equipment inside Tent II.
- Loaded 7 intermodals on trailers for shipment on 02-13-03.
- Shipped 5 intermodal containers to Envirocare.

### Activities planned on Thursday, 02-13-03:

- Decon heavy equipment inside Tent II.
- Depost Tent II and transfer heavy equipment from Tent II to Tent I.
- Begin backfill inside Tent II (cells O4-O9).
- Begin excavation inside Tent I (cells D4-D6).

Call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Friday, February 14, 2003 10:01 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-13-03

### Activities completed on Thursday, 02-13-03:

- Completed excavation of the approximately 5 foot wide strips of asphalt and underlying soil on the west edges of cells O4, O5 and O6. These strips have been left in place for each cell until the cell is confirmed "clean" so that the excavator can reach the opposite edge of the cell in the event it is necessary excavate additional soil. The strips are excavated to the same depth as the adjacent cell excavation bottom. This work was mistakenly reported complete on 02-12-03.

Note: The total depth of cell O4 is approximately 4.5 feet below the asphalt surface (2.5 feet of native soil removed).  
The total depth of cell O5 is approximately 3.6 feet (1.5 feet of native soil removed).

- Decontaminated the excavator tracks inside Tent II.
- De-posted Tent II and transferred heavy equipment, SCBAs, materials and instrumentation from Tent II to Tent I.
- Posted Tent I and began excavation operations inside Tent I. Removed approximately 50% of asphalt at cell C4.
- Filled 4 intermodal containers with soil and 1 intermodal with asphalt.
- Received 8 empty intermodal containers and shipped 7 filled intermodal containers to Envirocare.

### Activities planned on Friday, 02-14-03:

- Continue asphalt removal and excavate soil at cells C4, C5 and C6.
- Backfill cells O4-O9 in Tent II.
- Receive 7 empty intermodal containers.
- Collect samples from soil intermodals filled today for VOA analysis. These samples are in addition to the normal gamma spec samples and will be used to re-evaluate the 903 waste profile for future disposal options.

Call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
**Cell: 303-994-2837**  
**Fax: 303-966-2402**  
**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Friday, February 14, 2003 5:11 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara; Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Cc:**  
**Subject:** 903 Pad Update 02-14-03

### Activities completed on Friday, 02-14-03:

- Removed asphalt from cells C4 (remaining 50%), C5 and C6.
- Excavated 12 inches of native soil from cells C4 and C5.
- Collected a screen confirmation sample and a screen random sample from cell C4 for gamma spec analysis at 903A. The screen results are 0.0 pCi/g Am-241 for the confirmation sample and the random sample. These samples will be submitted to the URS lab for gamma spec analysis. The lab results should be available on Monday, February 17. The total depth of cell C4 is approximately 2.4 feet.
- Collected a screen confirmation sample from cell C5 for gamma spec analysis at 903A. The C5 screen sample result is 13.5 pCi/g Am-241. The total depth of cell C5 is approximately 2.5 feet. Plan to excavate an additional 6 inches at cell C5.
- Filled 10 intermodal containers.
- Backfilled 90% of cells O4-O9 in Tent II.
- Received 7 empty intermodal containers from Envirocare.

Note: Attempts were made to collect representative samples of the vertical profile of soil in the containers; however, the available sampling equipment became jammed with rocks. Other sampling techniques/equipment will be considered next week.

### Activities planned on Monday, 02-17-03:

- Excavate an additional 6 inches of native soil at cell C5.
- Continue excavation in Tent I.
- Complete backfill in Tent II.

Please call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
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**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Int:** Tuesday, February 18, 2003 6:51 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-17-03

### Activities completed on Monday, 02-17-03:

- Excavated additional 6 inches of native soil at cell C5. Collected one confirmation screen sample from C5 excavation for gamma spec analysis at 903A. The C5 screen result is 7.99 pCi/g Am-241. This sample was submitted to the URS Lab for gamma spec analysis.
- Excavated 12 inches of native soil at cell C6 and collected one field duplicate and one confirmation screen sample for gamma spec analysis at 903A. The C6 screen sample results are 0.00 pCi/g Am-241 for both the field duplicate and the confirmation sample. These two screen samples were submitted to the URS Lab for gamma spec analysis.
- Removed a 4-foot length of concrete curb in cell C6 with what appears to be a section of fence post pipe. This concrete is the remaining portion of the concrete curb encountered at cell C3 on 01-28-03, about 8 feet south of the north edge of the 903 Pad and approximately 4 inches beneath the asphalt/gravel base. As previously reported, it appears to be a support for a former fence and possibly a gate at that location. Including the 10-foot piece at cell C3, the total length of the concrete curb is approximately 14 feet. No rebar was observed in the concrete.
- Filled 8 intermodal containers with soil from C5 and C6.
- Staged 4 previously filled intermodal containers inside Tent II for VOC sampling. Collected soil samples from 2 of the 4 intermodals inside Tent II, with all radiological and health and safety controls in place.  
Note: These intermodals were randomly selected in addition to 6 other containers from the group of intermodals with contamination levels above the Envirocare waste profile limits. Soil samples will be collected from each container for VOC analyses. Samples for VOC analyses will also be collected from the next 18 intermodal containers filled with excavated soil. These data will be used to re-evaluate the 903 Pad waste profile.
- Received 1 empty intermodal container from Envirocare, and shipped 7 filled intermodal containers to Envirocare.

### Activities planned on Tuesday, 02-18-03:

- Continue excavation in Tent I (cells C7, C8, and C9).
- Continue intermodal sampling inside Tent II.

**Please note that I will be out of the office on Wednesday, February 19. Contact Mike Bemski if you need assistance.**

**Mike's office: 303-966-4090, cell: 303-994-2305**

Thanks,

**Tracey Spence**  
**Environmental Restoration, T124A**  
**Office: 303-966-4322**  
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## Spence, Tracey

**From:** Spence, Tracey  
**Int:** Wednesday, February 19, 2003 6:31 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-18-03

*Tuesday 18*

### Activities completed on ~~Wednesday~~, 02-18-03:

- Removed asphalt and excavated 12 inches of native soil at cell C9 in Tent I. Collected one confirmation screen sample from C9 excavation for gamma spec analysis at 903A. The C9 screen result is 0.00 pCi/g Am-241. This sample was submitted to the URS Lab for gamma spec analysis.
- Removed 2/3 asphalt and excavated 12 inches of native soil at cell C7. The excavation confirmation screen sample will be collected during the morning tent entry on 02-19-03.
- Loaded the 4-foot length of concrete curb, encountered on 02-17-03 at cell C6, into an intermodal designated for debris.
- Filled 8 intermodal containers (6 soil and 2 asphalt).
- Staged 8 previously filled intermodal containers inside Tent II for VOC sampling. Collected soil samples from 10 intermodals inside Tent II, with all radiological and health and safety controls in place.  
Note: These intermodals were randomly selected from the group of intermodals with contamination levels above the Envirocare waste profile limits. Soil samples were collected from each container for VOC analyses. Samples for VOC analyses will also be collected from the next 10 intermodal containers filled with excavated soil. These data will be used to re-evaluate the 903 Pad waste profile.
- Received preliminary gamma spec results from URS Lab for the cell C5 confirmation sample collected on 02-17-03 following excavation of additional 6 inches of native soil. The preliminary confirmation sample result is 6.25 pCi/g Am-241 (uncorrected for moisture content).

*Wed 19*

### Activities planned on ~~Thursday~~, 02-20-03:

Continue excavation in Tent I (cells C7, C8, and C9):

- Excavate additional 3 inches of native soil at cell C5 and collect screen sample for gamma spec analysis at 903A.
- Continue excavation at cells C7 and C8.
- Remove 8 intermodals from Tent II and prepare Tent II for next tent pull to the south over cells S7-S9 and T1-T9.

**Please note that I will be out of the office after 11:30 a.m. today and all day Thursday, February 20. Contact Mike Bemski if you need assistance.**

**Mike's office: 303-966-4090, cell: 303-994-2305**

Thanks,

**Tracey Spence**  
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## Spence, Tracey

**From:** Bemski, Mike  
**Content:** Thursday, February 20, 2003 6:43 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-19-03

### Activities completed on Wednesday, 02-19-03:

- Completed excavation of cells C5 and C7 in Tent I following confirmation that both were below contamination action levels.
- Sample screening from C8 showed contamination well above action level.
- Sampled waste soils in Tent I.
- Filled 13 (11 soil and 2 asphalt) intermodal containers.
- Removed 8 previously filled intermodal containers from Tent II that had been sampled for VOCs.
- Performed gamma spec screening analysis in 903B.
- Pulled Tent II to the south over cells S7-9 and T1-9.
- A rolloff truck was brought to the project site to determine if it will provide a viable method of emptying intermodal containers for future blending needs. The results of the rolloff truck performance were inconclusive.

### Activities planned for Thursday, 02-20-03:

- Further excavation on cell C8 will be performed Thursday.
- Preparation of Tent II for excavation including sealing, setup of stepoff conex, setup of ventilation system, and smoke test.
- Excavation in the new location of Tent II should start Thursday on the east side of the tent in cells T7-9, on the east edge of the pad.

**Mike Bemski**

Environmental Restoration

303-966-4090, FAX 966-4165

Cell Phone 303-994-2305

c/p 303-212-6271, Bldg. T-124-A, Cube 38

Email [mike.bemski@rfets.gov](mailto:mike.bemski@rfets.gov)

## Spence, Tracey

**From:** Bemski, Mike  
**nt:** Thursday, February 20, 2003 7:06 PM  
**o:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-20-03

### Activities completed on Thursday, 02-20-03:

- An additional 6 inches of soil was excavated from cell C8 and screening of two samples collected indicate that contamination is below action level. The screen prior to removal of the 6 inches was 649 pCi/g Am-241. Following the removal, the screen was 0.0 pCi/g Am-241. The remaining soil required for completion of cell C8 was excavated.
- Filled 7 soil intermodal containers.
- Shipped 7 intermodal containers. Received 2 empty intermodal containers.
- Prepared Tent II for excavation activities, including removal of interior cables used during the tent pull, inspecting the tent, sealing the tent with foam, attaching the step-off conex, setup of the air mover, change out filters and DOP test the air mover, and smoke testing the tent.
- Prepared Tent I for backfill and reversal of excavation direction.
- Received shipment of liquid nitrogen for screening lab in 903B.

### Activities planned for Friday, 02-21-03:

- Finish preparation of Tent I for backfill.
- Decontaminate excavator (wipe down tracks) and release both excavator and fork truck to move to Tent II.
- Move supplies to Tent II.
- Depost Tent I to allow for movement of equipment.
- Start backfill of Tent I.
- Setup Tent I for excavation of other side (reversal).
- Start excavation inside Tent II with cells T7, T8, and T9.
- \*Setup three overweight asphalt intermodal containers for removal of excess material and perform.
- \*Setup and sample intermodal containers with soil in excess of 10 nannocuries/gram for VOC analysis.

\*14 empty intermodal containers are scheduled to arrive Friday, February 21. As only 8 empty intermodal containers remain, if the expected containers do not arrive or arrive late, the project will run out of containers for further excavation. Overweight container adjustments and sampling activities will be performed in lieu of excavation.

**Tracey Spence and Nick Demos will be covering project activities Friday, February 21.**

**Mike Bemski**

Environmental Restoration

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## Spence, Tracey

**From:** Spence, Tracey  
**Int:** Monday, February 24, 2003 9:33 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-21-03

### Activities completed on Friday, 02-21-03:

- De-posted Tent I (position 3). Released heavy equipment and materials/supplies out of Tent I and transferred to Tent II (position 3).
- Serviced (routine) excavator and forklift. Exchanged exhaust scrubber filter on excavator.
- Repaired plastic "skirting" on tractor-trailer used for transferring intermodal containers in/out of the tents.
- Posted Tent II (position 3) and began remediation operations inside Tent II.
- Removed asphalt from cells T7, T8, and T9 in Tent II.
- Excavated approximately 2/3 of native soil to a depth of 12 inches beneath the asphalt/gravel base at cell T9.
- Collected confirmation screen sample from cell T9. The screen sample result is 14.1 pCi/g Am-241. An additional 6-inch lift of native soil will be excavated across T9.
- Filled 2 intermodals with soil and 3 containers with asphalt.
- Backfilled approximately 85% of cells C4-C9 in Tent I (position 3).
- Received 14 empty intermodal containers from Envirocare. Expect to receive 10 to 12 empty intermodals on Monday, 02-24-03.
- Shipped 8 filled intermodals to Envirocare.

### Activities planned for Monday, 02-24-03:

- Excavate additional 6 inches of native soil at cell T9.
- Continue excavation of cells T7 and T8.
- Complete backfill in Tent I and setup for excavation of cells D1, D2 and D3.

Please call me if you have any questions.

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## Spence, Tracey

**From:** Spence, Tracey  
**Int:** Tuesday, February 25, 2003 6:15 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-24-03

### Activities completed on Monday, 02-24-03:

- Completed backfill in Tent I (position 3).
- Continued excavation operations in Tent II (position 3).
- Excavated additional 6 inches of soil at cell T9. Collected confirmation screen sample from cell T9 (T9 screen sample result = 1.93 pCi/g Am-241). Total depth of T9 excavation is approximately 2.6 feet (with 18 inches of native soil excavated).
- Excavated 12 inches of native soil at cell T8. Collected confirmation screen sample from cell T8 (T8 screen sample result = 5.23 pCi/g Am-241). Total depth of T8 excavation is approximately 2.1 feet (with 12 inches of native soil excavated).
- Excavated 12 inches of soil from approximately 2/3 of cell T7.
- Filled 10 intermodal containers.
- Received 10 empty intermodal containers from Envirocare.
- Shipped 10 filled intermodal containers to Envirocare.

Note: The morning tent entry was not performed on 02-24-03. The Tent II ventilation system and various heavy equipment and generators would not start due to below freezing temperatures.

### Activities planned on Tuesday, 02-25-03:

- Setup Tent I (position 3) for excavation on east side of tent, move stepoff conex to east side of tent
- Continue excavation in Tent II (cells T4, T5 and T6).
- Ship and receive intermodal containers.
- Swap gamma spec detector in 903B.

Please call me with questions.

**Tracey Spence**  
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**Fax: 303-966-2402**  
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## Spence, Tracey

**From:** Spence, Tracey  
**nt:** Wednesday, February 26, 2003 2:50 PM  
**o:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-25-03

### Activities completed on Tuesday, 02-25-03:

- Setup Tent I (position 3) for excavation on east side of tent, moved stepoff conex to east side of tent.
- Continued excavation in Tent II (position 3).
- Excavated additional 6 inches of soil at cell T8. Collected confirmation screen sample from cell T8 (T8 screen sample result = 0.0 pCi/g Am-241). Total depth of T8 excavation is approximately 4.2 feet (with 18 inches of native soil excavated).
- Removed remaining 1/3 of asphalt and soil at cells T7 and T8.
- Removed approximately 1/4 of asphalt at cell T5 and T6.
- Filled 12 intermodal containers.
- Managed one overweight intermodal container.
- Shipped 11 intermodal containers to Envirocare.
- Received 5 empty intermodal containers from Envirocare.
- Swapped out gamma spec detector in 903B.

### Activities planned on Wednesday, 02-26-03:

- Complete removal of asphalt at cells T5 and T6.  
Excavate soil at cells T5 and T6.  
Ship and receive intermodal containers.

Please call me if you have any questions.

**Tracey Spence**  
**Environmental Restoration, T124A**  
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**E-mail: tracey.spence@rfets.gov**

## Spence, Tracey

**From:** Spence, Tracey  
**Int:** Thursday, February 27, 2003 6:26 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-26-03

### Activities completed on Wednesday, 02-26-03:

- Removed 2/3 of asphalt from cells T4, T5 and T6.
- Excavated 12 inches of native soil from 2/3 of cell T4 (total depth is approximately 2.5 feet). The cell T4 confirmation screen sample result = 1.98 pCi/g Am-241. This sample was submitted to the URS lab for gamma spec analysis.
- Filled 9 intermodal containers.
- Transferred soil from one overweight intermodal to a new container inside Tent II.
- Shipped 12 intermodals to Envirocare.
- Received 8 empty intermodals.

### Activities planned on Thursday, 02-27-03:

- Continue soil excavation in Tent II-3 at cells T5 and T6.
- De-post Tent II and prepare for excavation in Tent I-3 (cells D1-D6).
- Ship and receive intermodal containers.

Please call me if you have any questions.

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## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Thursday, February 27, 2003 4:25 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-27-03

### Activities completed on Thursday, 02-27-03:

- Excavated 12 inches of native soil from 2/3 of cell T5 (total depth is approximately 3.3 feet). Collected a confirmation and a field duplicate screen sample from cell T5. The cell T5 confirmation screen sample result = 4.36 pCi/g Am-241, T5 field duplicate screen sample result = 2.71 pCi/g Am-241. Both samples were submitted to the URS lab for gamma spec analysis.
- Excavated 12 inches of native soil from 2/3 of cell T6 (total depth is approximately 3 feet). The cell T6 confirmation screen sample result = 4.45 pCi/g Am-241. This screen sample was submitted to the URS lab for gamma spec analysis.
- Filled 13 intermodal containers (12 soil, 1 asphalt).
- Shipped 8 intermodals to Envirocare.
- Received 9 empty intermodals.

### Activities planned on Friday, 02-28-03:

Operations on Friday will be limited to shipping and receiving intermodal waste containers. No remediation operations will be conducted.

Please call me if you have any questions.

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## Spence, Tracey

**From:** Bemski, Mike  
**Sent:** Friday, February 28, 2003 4:32 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 02-28-03

### Activities completed on Friday, February 28, 2003:

- Reduced crew (9), no remedial operations.
- 12 intermodals shipped.
- 9 intermodals received of which one was rejected for a damaged door.
- 9 empty intermodals were lined of a total 17 empty intermodals.
- Full waste container inspections were performed on the 903 Pad.

### Activities planned for Monday, March 3, 2003:

- Continue excavation within Tent II-3 to completion of cells T4-T9.
- Move excavation operations to Tent I-3 and begin excavation of cells D1-D3.
- Reverse setup of Tent II-3 to allow for excavation of S7-T3.
- Line, ship, and receive intermodals.

Mike Bemski

Environmental Restoration

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Email [mike.bemski@rfets.gov](mailto:mike.bemski@rfets.gov)

## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Tuesday, March 04, 2003 6:39 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-03-03

### Activities completed on Monday, 03-03-03:

- Excavated additional 6 inches of native soil at cell T6 (total depth is approximately 3.6 feet). The cell T6 confirmation screen sample result = 0.0 pCi/g Am-241. This sample was submitted to the URS lab for gamma spec analysis.
- Collected one biased sample near the northwest corner of cell T6. The screen sample result for the biased soil sample is 2.76 pCi/g Am-241.
- Removed remaining 1/3 of asphalt and soil at cells T5 and T6.
- Filled 7 intermodal containers.
- Shipped 12 intermodals to Envirocare.
- Received 12 empty intermodals.

### Activities planned on Tuesday, 03-04-03:

- Move equipment from Tent ~~II~~<sup>I-3</sup> to Tent ~~II~~<sup>I-3</sup> and begin excavation at cells D1-D3.
- De-post Tent II and begin backfill of cells T4-T9.
- Perform tests with rolloff truck and intermodal inside Tent II.
- Ship and receive intermodal containers.

Please call me if you have any questions.

Tracey Spence  
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## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Wednesday, March 05, 2003 7:28 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-04-03

### Activities completed on Tuesday, 03-04-03:

- Deconed and transferred equipment from Tent II-3 to Tent I-3.
- Pulled back asphalt from 2/3 of cells D4, D5 and D6.
- Removed and loaded asphalt from cell D6.
- Began excavating soil from cell D6.
- Filled 3 intermodal containers with asphalt and 1 intermodal with soil.
- Shipped 12 intermodals to Envirocare.
- Received 13 empty intermodals.
- Conducted demonstration with rolloff truck -- to support proposed future blending operations. Filled one intermodal container with clean backfill gravel and used the rolloff truck to dump the gravel from the intermodal into the open excavation (cells T4-T9) in Tent II-3. The gravel was dumped as planned; however, it was determined that either a larger rolloff truck or a rolloff transfer trailer should be used to adequately handle a loaded 42,000 lb. intermodal. Other field modifications may also be required. A preliminary draft Operations Order for the blending operation is under internal review. The final draft will be distributed to the project team for review later this week.
- Initiated backfill in Tent II-3 (cells T4-T9).

### Activities planned on Wednesday, 03-05-03:

- Continue excavation in Tent I-3 at cells D6, D5 and D4.
- Continue backfill in Tent II-3 (cells T4-T9).
- Ship and receive intermodal containers.

Please call me if you have any questions.

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## Spence, Tracey

**From:** Spence, Tracey  
**ent:** Thursday, March 06, 2003 5:38 PM  
**o:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-05-03

### Activities completed on Wednesday, 03-05-03:

- Steelworkers and E2 personnel attended mandatory Waste Generator re-qualification training for most of morning. Subsequently, no morning tent entry was made to perform excavation operations.
- Conducted 2nd intermodal dumping test (with clean fill material) using a rolloff trailer. During the test, the dumped material contacted the trailer and the bottom rails on the trailer were forced into the bottom of the excavation. This is not acceptable due to the potential to contaminate the rolloff equipment. Other methods for blending are being considered.
- Continued backfill in Tent II-3. Completed approximately 70%.

**Note:** The afternoon tent entry in Tent I-3 was not performed. The hydraulic thumb attachment on the excavator inside Tent I-3 would not hold pressure and was not operable. The excavator was decontaminated for release out of the tent for repair. The second excavator was transferred from Tent II-3 to Tent I-3.

### Activities planned on Thursday, 03-06-03:

- Continue excavation in Tent I-3 at cells D6 and D5.
- Continue backfill in Tent II-3 (cells T4-T9).
- Ship and receive intermodal containers.
- Repair new excavator bucket/thumb.

Please call me if you have any questions.

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## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Thursday, March 06, 2003 5:46 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-06-03

### Activities completed on Thursday, 03-06-03:

- Excavated 12 inches of native soil at cell D6. The cell D6 confirmation screen sample result = 84.9 pCi/g Am-241.
- Excavated an additional 6 inches of native soil from cell D6. Collected one confirmation screen sample and one field duplicate sample in cell D6. The 2nd confirmation screen sample result = 2.71 pCi/g Am-241. The field duplicate screen sample result = 4.7 pCi/g Am-241. These screen samples were submitted to the URS lab for gamma spec analysis. The total depth of cell D6 is approximately 2.6 feet.
- Excavated 12 inches of native soil at cell D5. The cell D5 confirmation screen sample result = 0.0 pCi/g Am-241.
- Filled 3 intermodal containers with asphalt and 1 intermodal with soil.
- Shipped 8 intermodals to Envirocare.
- Did not receive any empty intermodals.
- Completed backfill in Tent II-3 (cells T4-T9).

Note: Operations outside the active remediation tent were suspended for 5 hours due to high winds. Activities inside Tent I-3 were suspended 2 hours.

### Activities planned on Friday, 03-07-03:

- Continue excavation in Tent I-3 at cells D4.
- Prepare to transfer excavation operations to Tent II-3.
- Ship and receive intermodal containers.

**I will be out of the office on Friday, March 7. Please contact Mike Keating (office: 303-966-4815, cell: 303-994-0691) if you have any questions.**

Thanks,

**Tracey Spence**  
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## Spence, Tracey

**From:** Keating, Michael  
**Sent:** Friday, March 07, 2003 4:32 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-07-03

### Activities completed on Friday, 03-07-03:

- Excavated 12 inches of native soil at cell D4. The cell D4 confirmation screen sample result = 0.0 pCi/g Am-241.
- Excavated asphalt from D1, D2, D3.
- Excavated 12 inches of native soil at cell D1. The cell D1 confirmation screen sample result = 5.68 pCi/g Am-241.
- Filled 3 intermodal containers with asphalt and 9 with soil.
- Shipped 7 intermodals to Envirocare.
- Received 20 empty intermodals.
- Completed compaction of backfill in Tent II-3 (cells T4-T9).

### Activities planned on Monday, 03-010-03:

- Continue excavation in Tent I-3 at cells D2 and D3.
- Confirm results of D-1 screen sample.
- Ship and receive intermodal containers.

Thanks,

### Mike Keating

903 Pad K-H Project Manager  
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Nextel: 303.994.6091  
E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"Only those who dare to fail greatly can ever achieve greatly."**

*-Robert Francis Kennedy </author.asp?AUTHOR\_ID=324>*

## Spence, Tracey

**From:** Spence, Tracey  
**ent:** Tuesday, March 11, 2003 6:33 AM  
**to:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-10-03

### Activities completed on Monday, 03-10-03:

- Removed and re-packaged soil from 2 overweight intermodal containers inside Tent I-3.
- Received preliminary gamma spec results from URS lab for cell D1 (3.97 pCi/g Am-241). Removed remaining 1/3 of asphalt and native soil on the west side of cell D1.
- Excavated 12 inches of native soil at cell D2. Collected one confirmation screen sample and one biased screen sample at cell D2. The cell D2 confirmation screen sample result = 0.0 pCi/g Am-241. The cell D2 biased screen sample result = 0.0 pCi/g Am-241. Both samples were submitted to the URS lab for gamma spec analysis.
- Excavated 12 inches of native soil at cell D3. Collected one confirmation screen sample at cell D3. The cell D3 confirmation screen sample result = 24.25 pCi/g Am-241. An additional 6 inches of native soil will be removed at cell D3 and a new excavation confirmation sample will be collected.
- Filled 10 intermodal containers.
- Shipped 5 intermodals to Envirocare.
- Received 26 empty intermodals from Envirocare.

### Activities planned on Tuesday, 03-11-03:

- Continue excavation in Tent I-3 at cells D2 and D3.
- Prepare to transfer excavation operations to Tent II-3.
- Ship and receive intermodal containers.

Please call me if you have any questions.

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## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Wednesday, March 12, 2003 6:24 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-11-03

### Activities completed on Tuesday, 03-11-03:

- Excavated an additional 6 inches of native soil at cell D3. Collected one confirmation screen sample at cell D3. The cell D3 confirmation screen sample result = 0.0 pCi/g Am-241. The total depth is approximately 3.5 feet.
- Filled 5 intermodal containers.
- Decontaminated the excavator and forklift inside Tent I-3.
- De-posted Tent I-3 and transferred equipment to Tent II-3.
- Staged empty intermodal containers inside Tent II-3.
- Initiated backfill in Tent I-3 (approx. 20% complete).
- Received 28 empty intermodals from Envirocare. No intermodals were shipped.

### Activities planned on Wednesday, 03-12-03:

- Start excavation in Tent II-3 (cells T1-T3).
- Continue backfill in Tent I-3.
- Ship and receive intermodal containers.

Please call me if you have any questions.

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## Spence, Tracey

**From:** Spence, Tracey  
**ant:** Thursday, March 13, 2003 6:30 AM  
**io:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-12-03

### Activities completed on Wednesday, 03-12-03:

- Removed asphalt from cells S7, S8 and S9 in Tent II-3.
- Initiated excavation of soil at cells S8 and S9.
- Filled 8 intermodal containers.
- Continued backfill in Tent I-3.
- Prepared Tent I-3 for next move to the east over cells D7-D9 and E1-E9, tentatively scheduled on 03-14-03.
- No intermodal containers were shipped or received.
- Note: Excavation operations were suspended in Tent II-3 when engine oil smoke was observed from the excavator (at approximately 2:45 p.m.). The excavator will be decontaminated and released from the tent for repair on 03-13-03. The second 903 excavator will be used to continue excavation in Tent II-3.

### Activities planned on Thursday, 03-13-03:

- Continue excavation in Tent II-3 at cells S7, S8 and S9.
- Rig Tent I-3 for move to the east. Plan to use 2 front-end loaders to pull the tent instead of the 2 dozers. If the loader pull is successful, the dozers will likely be returned to the vendor as a cost savings to the project.
- Ship and receive intermodal containers.

Please call me if you have any questions.

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## Spence, Tracey

**From:** Spence, Tracey  
**Sent:** Thursday, March 13, 2003 5:24 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-13-03

### Activities completed on Thursday, 03-13-03:

- Excavated soil at cell S9 and collected and analyzed one excavation confirmation screen sample. The S9 screen sample result = 0.0 pCi/g Am-241. The depth is approximately 2.8 feet.
- Excavated approximately 1/2 of cell S8.
- Rigged Tent I for pull to the east.

### Activities planned on Friday, 03-14-03:

- Pull Tent I to the east with front loaders.
- Sample selected intermodals for VOC analyses.

I will be out of the office on Friday, March 14. Please contact Mike Keating (office: 303-966-4815, cell: 303-994-0691) if you have any questions.

Thanks;

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## Spence, Tracey

**From:** Keating, Michael  
**Sent:** Friday, March 14, 2003 3:38 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Spence, Tracey; Demos, Nick; Burmeister, Mark; Bemski, Mike  
**Subject:** 903 Pad Update for 3/14/03

### Activities completed on Thursday, 03-14-03:

- Moved tent #1
- Partially successful implementation of loaders pulling tents. Loaders pulled about 20 feet before fusible links failed twice. Loaders did not slide on asphalt or soil, they had adequate power and loads could be controlled. Project team/Engineering will develop a path forward for using loaders to move tent.
- Received 8 intermodals
- Lined intermodals for next week
- Sampled "hi-rad" intermodals for VOC analysis
- No excavation

### Activities planned on Friday, 03-11-03:

- Complete excavation of cells S8 and S7
- Collect confirmation samples from S8 and S7
- Rig tent 1 for excavation
- Ship and receive intermodal containers.

### Mike Keating

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**"Only those who dare to fail greatly can ever achieve greatly."**

**-Robert Francis Kennedy </author.asp?AUTHOR\_ID=324>**

## Spence, Tracey

**From:** Spence, Tracey  
**Int:** Thursday, March 20, 2003 8:31 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Update 03-17-03

### Activities completed on Monday, 03-17-03:

- Excavated 12 inches of native soil across 2/3 of cells S7 and S8.
- Collected one confirmation screen sample at cell S7. The S7 screen sample result = 0.0 pCi/g Am-241. This screen sample was submitted to the URS lab for gamma spec analysis. The excavation depth is approximately
- Collected one confirmation screen sample and one field duplicate screen sample at cell S8. The S8 confirmation screen sample result = 2.31 pCi/g Am-241. The S8 field duplicate screen sample result = 2.68 pCi/g Am-241. These samples were submitted to the URS lab for gamma spec analysis. *26.5*
- Removed asphalt and excavated 12 inches of native soil across 2/3 of cells T1-T3. Collected confirmation screen samples. The T1-T3 screen sample results are as follows: T1 = *26.5* pCi/g Am-241, T2 = 182 pCi/g Am-241, T3 = 27.1 pCi/g Am-241. The screen sample for T1 was submitted to the URS lab for gamma spec analysis. The T2 and T3 samples will be discarded (as waste). A minimum of 6 additional inches of native soil will be removed from cells T2 and T3 and new screen samples will be collected.
- Filled 10 intermodal containers.
- Shipped 7 intermodal containers to Envirocare. No containers were received from Envirocare.
- Staged 11 empty intermodal containers inside Tent I-4 in preparation for the forecast heavy snow.

Note: RFETS was closed and no work was performed at the 903 Pad site on 3/18 and 3/19 due to heavy snow and izzard conditions.

### Activities planned on Friday, 03-20-03:

- Snow removal at the 903 Pad site.
- Prepare to excavate on Friday, 03-21-03.

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## Lindsay, Thomas

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**From:** Spence, Tracey  
**Sent:** Friday, March 21, 2003 8:13 AM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Lindsay, Thomas; Spence, Tracey  
**Subject:** 903 Pad Update 03-20-03

### Activities completed on Thursday, 03-20-03:

- Performed snow removal all day at the 903 Pad and 891 yard with front loaders, dozers and hand shovels. No excavation or intermodal handling operations were performed. Approximately 70% of the 903 Pad was cleared. Snow is being piled to minimize surface water runoff into the tents.

The tent structures sustained no significant damage and shed the snow well; however, the air mover duct hose and attachments on both tents were buried by the tent snow and damaged. Excavation operations are suspended until the duct hose is replaced and attachments are repaired. We plan to make the repairs today in order to resume excavation by Monday, 03-24-03.

### Activities planned on Friday, 03-21-03:

- Continue snow removal at the 903 Pad site.
- Repair air mover ducts on both tents.
- Clear snow from intermodal storage areas.

Please call me if you have any questions.

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**Lindsay, Thomas**

---

**From:** Spence, Tracey  
**Sent:** Friday, March 21, 2003 4:56 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bernski, Mike; Lindsay, Thomas; Spence, Tracey  
**Subject:** 903 Pad Update 03-21-03

**Activities completed on Friday, 03-21-03:**

- Continued snow removal on 903 Pad and 891 Yard to clear the tents, equipment and intermodal containers.
- Removed the tent air mover flexible hose and duct attachments damaged by snow accumulation on the south sides of each tent (12 to 15 feet).
- Re-installed duct attachments to the tents.

**Activities planned on Monday, 03-24-03:**

- Replace Ionex air mover flexible hoses and HEPA filters on Tent II.
- Perform air flow smoke test on Tent II.
- Prepare to resume excavation in Tent II-3 (cells T1-13, based on elevated screen sample results).

**Please call me if you have any questions.**

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## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Monday, March 24, 2003 5:03 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman. gary@epa.gov'; Rehder, Timothy; 'aguiar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Miller, George; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bernski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Update 03-24-03

### Activities completed on Monday, 03-24-03:

- Replaced lonex air mover flexible hoses on Tent II.
- Backfill / graded area on east side of Tent II outside.
- Diverted snow melt around tent structures.
- Covered intermodals in the 891 yard with tarps..

### Activities planned on Tuesday, 03-25-03:

- Backfill cells at Tent II to allow for tent movement to the west.
- Divert snow melt away from tent structures.
- Prepare for tent movement on Wednesday..

**Please call me if you have any questions.**

Tom Lindsay  
T-124A  
x5705

**Lindsay, Thomas**

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**From:** Lindsay, Thomas  
**Sent:** Tuesday, March 25, 2003 5:33 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Update 3-25-03

**Activities completed on Tuesday, 03-25-03:**

- Continued to divert snow-melt away from both tent structures.
- Replaced filters in air mover for tent #2.
- Deconned, surveyed and deposited tent #2 for backfill operations.
- Back-filled open cells (T1, T2, and T3) on west side of tent #2 with road base..

**Activities planned for Wednesday, 03-26-03:**

- Continue removal of equipment / materials from tent structure.
- Move tent # 11 tomorrow afternoon.
- Ship asphalt waste (6 Intermodals)..

**Please call me if you have any questions.**

**Tom Lindsay**  
**T-124A**  
**x5705**



## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Wednesday, March 26, 2003 4:19 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Update 3-26-03

### Activities completed on Wednesday, 03-26-03:

- Prepared and moved tent # II to the west with the east end of the tent over cells T1 through T3.
- Re-ballasted tent II and set it up for excavation on Thursday.
- Shipped 7 Intermodals (asphalt) offsite and staged empty containers in tent # II.
- Surveyed out equipment to free release offsite (JCB forklift, 2 - 60 KW generators)

### Activities planned for Thursday, 03-27-03:

- Re-excavate cells T1 through T3 at tent # II back to previous locations.
- Ship additional waste containers.

**Please call me if you have any questions.**

**Tom Lindsay  
T-124A  
x5705**

## **Lindsay, Thomas**

**From:** Lindsay, Thomas  
**Sent:** Thursday, March 27, 2003 4:49 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Bürmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; Paris, Steve; Lindsay, Thomas  
**Subject:** 903 Pad Status Update 3-27-03

### **Activities completed on Thursday, 03-27-03:**

- High winds early in the morning curtailed work activities for awhile outside the tent structures.
- Completed preparatory work in tent # 11 to begin excavation except for the smoke test.
- Smoke test originally failed and corrections were made to seal the tent better.
- Surveyed out additional equipment for offsite release. (2 - D7 dozers, water truck, 1 - large forklift)
- Received the flex duct for the lonex air mover at tent #1.

### **Activities planned for Friday, 03-28-03:**

- Re-excavate cells T1 through T3 at tent # 11 back to their previous depths.
- Ship 8 waste containers.
- Change out flexible air duct on the lonex air mover at tent #1.

**Please call me if you have any questions.**

**Tom Lindsay**  
**T-124A**  
**x5705**

## **Lindsay, Thomas**

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**From:** Keating, Michael  
**Sent:** Monday, March 31, 2003 7:43 AM  
**To:** Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; Spence, Tracey; Kaiser, Gerald L.; Foreman, Harry L.  
**Subject:** Dailey Update

### **Activities completed on Thursday, 03-27-03:**

- Excavate additional 12" in T3
- Field screen showed ND, sent to lab
- Excavated 11 intermodals

### **Activities planned for Monday, 03-31-03:**

- Continue excavation in tent 2
- Ship 8 waste containers.
- Receive intermodals.

**Please call me if you have any questions.**

### **Mike Keating**

903 Pad K-H Project Manager  
Phone: 303.966.515  
Nextel: 303.994.6091  
E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"Never mistake motion for action"**

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Monday, March 31, 2003 4:58 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; Lindsay, Thomas  
**Subject:** 903 Pad Status Update 3/31/03

### Activities completed on Monday, 03-31-03:

- Excavated cell T1 at tent #2 and pulled a confirmation sample. Preliminary field screen showed 1.84 pCi/g at 4.13 feet deep.
- Excavated twelve intermodals today at tent #2
- Afternoon activities they excavated at cell T2. Encountered problems with the flex hose on the air mover. Operations paused and they changed out the flex hose to the Ionex air mover.
- Shipped eight Intermodals offsite and received eight empty intermodals.

### Activities planned for Monday, 04-01-03:

- Continue excavation in tent 2 on cell T2 after smoke test is completed.
- Ship and receive additional intermodals.
- Tent #1 is ready for excavation operations.

**Lindsay, Thomas**

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**From:** Keating, Michael  
**Sent:** Tuesday, April 01, 2003 4:47 PM  
**To:** Lindsay, Thomas  
**Subject:** FW: 903 Pad Daily Update

I left you off the list by mistake

**Mike Keating**

903 Pad K-H Project Manager  
Phone: 303.966.4815  
Nextel: 303.994.6091  
E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"Never mistake motion for action"**

-----Original Message-----

**From:** Keating, Michael  
**Sent:** Tuesday, April 01, 2003 4:40 PM  
**To:** Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Krogfuss, Barbara  
**Cc:** Foreman, Harry L.; Kaiser, Gerald L.; Burmeister, Mark; Spence, Tracey  
**Subject:** 903 Pad Daily Update

**Activities completed on Tuesday, 04-01-03:**

- Completed all remaining cells at 903 Pad (April Fools!!!!)
- Confirmation field screen of T2 and sample sent to lab.
- Excavate T-2 additional 12 inches
- Complete excavation of S7 (partial)
- Excavated 11 intermodals
- Shipped 8 intermodals
- Received 6 intermodals

**Activities planned for Wednesday, 04-02-03:**

- Complete excavation of S8 and S9 (partials)
- Steelworkers decon trackhoe bucket and forlift
- Steelworkers move to tent 1
- Envirocon decon remaining equipment
- Ship 8 intermodals.
- Receive intermodals.

**Please call me if you have any questions**

**Mike Keating**

903 Pad K-H Project Manager  
Phone: 303.966.4815  
Nextel: 303.994.6091  
E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"Never mistake motion for action"**

## Lindsay, Thomas

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**From:** Lindsay, Thomas  
**Sent:** Wednesday, April 02, 2003 5:26 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Update 4/02/03

### Activities completed on Wednesday, 04-02-03:

- Excavated partial cells S8 & S9.
- Filled five intermodals from the S8/S9 cells
- Shipped offsite 8 intermodals
- Received 10 empty intermodals from Envirocare
- Incurred a first aid injury to an offsite Vendor (WRS) who cut a finger changing out the cutting edge on the 966 front end loader. He was released by medical with no restrictions.

### Activities planned for Thursday, 04-03-03:

- Finish excavation (approximately 1 more intermodal) of the partial cells S8 & S9.
- Steelworkers will decon trackhoe bucket and forklift.
- Steelworkers will start excavation activities in tent #1.
- Envirocon will decon remaining equipment and start preparations for moving tent #2.

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Thursday, April 03, 2003 4:53 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gry@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Update 4/03/03

### Activities completed on Thursday, 04-03-03:

- Completed excavation of partial cell S7, generated one intermodal at Tent #2.
- Steelworkers deconned the trackhoe bucket and forklift. Envirocon personnel deconned the trackhoe and remaining equipment.
- Downposted tent #2 and started backfilling open cells.
- Started excavation at tent #1 removing asphalt over cells D7/D8/D9.
- A total of 6 Intermodals were filled today, 1 from Tent #2 and 5 from Tent #1 (4 asphalt and 1 soil).
- Shipped 8 Intermodals offsite and received 16 empty containers.

### Activities planned for Friday, 04-04-03:

- Finish backfilling cells at tent #2 and prepare moving tent #2 west.
- Continue excavation at tent #1 on partial cells D4 through D6 and D7 - D9.
- Start blending operations at tent #1 for several intermodals.
- Ship and receive more intermodals.

## Lindsay, Thomas

---

**From:** Lindsay, Thomas  
**Sent:** Monday, April 07, 2003 5:09 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Butler-Veytia, Belinda; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 4/07/03

### Activities completed on Monday, 04-07-03:

- Continued to blend at tent #1 today. Container # BFLU000172 soil contents were split with three new containers and soil from cell D8.
- Envirocon excavated at cells D7/D8. A confirmation sample was pulled from cell D7 with a preliminary value of 0 pCi/g - Am at 2.42' deep.
- A total of 7 Intermodals were filled today from Tent #1.
- Envirocon continued work on tent #2 preparing it for excavation by moving into place the entry connex and lonex air mover.
- Shipped 9 Intermodals offsite and received 8 empty containers.

### Activities planned for Tuesday, 04-08-03:

- Continue excavation at tent #1 on cell D8 and start on the E cells.
- Continue blending intermodals at tent #1.
- Complete remaining activities at tent #2 for preparation of excavation.
- Ship and receive more intermodals.



## Lindsay, Thomas

**From:** Keating, Michael  
**Sent:** Wednesday, April 09, 2003 6:35 AM  
**To:** Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Butler-Veytia, Belinda; Horne, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; McQueary, Steven; Burmeister, Mark; Spence, Tracey  
**Subject:** Dailey Update April 9

### Activities completed on Tuesday, 04-08-03:

- Continued to excavate tent #1
- A confirmation sample was pulled from cell D8 with a preliminary value exceeding the 50 pCi/g Pu. An additional 6 inches will be excavated.
- A total of 4 Intermodals were filled today from Tent #1.
- Tent #2 was smoke tested and is ready for use.
- Shipped 8 Intermodals offsite and received 4 empty containers.
- Due to rapid snow melt, water partially filled cell D9. Excavation in tent 1 was suspended while pumps were mobilized to draw down the water. Pumping continued until 6:00 PM.

### Activities planned for Wednesday, 04-09-03:

- Continue to pump water from Cell 9
- Complete excavation in tent #1 on cell D8
- Collect confirmation sample in cell D8
- Start excavation on E1-E3 cells in tent 1.
- Ship and receive intermodals.

### Mike Keating

903 Pad K-H Project Manager  
Phone: 303.966.4815  
Nextel: 303.994.0691  
E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"We are confronted with insurmountable opportunities."  
-Pogo </author.asp?AUTHOR\_ID=375>**

## Lindsay, Thomas

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**From:** Lindsay, Thomas  
**Sent:** Wednesday, April 09, 2003 5:29 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Butler-Veytia, Belinda; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 4/09/03

### Activities completed on Wednesday, 04-09-03:

- Continued to excavate at tent #1. Took three confirmation samples today and only two passed. Cell D8 at 3.49' deep was 0.0 pCi/g Am, cell E1 at 2.46' deep was 3.08 pCi/g and cell E3 was too high and failed at 8.77 pCi/g.
- A total of 13 Intermodals were filled today from Tent #1.
- Shipped 8 Intermodals offsite and received 1 empty containers. Loaded 13 containers and lined another 16 containers.
- Completed pumping water out of tent #1 from cell D9 and URS took samples from the collected 3300 gallons of incidental water.

### Activities planned for Thursday, 04-10-03:

- Continue excavation in cell E3 and dig an additional 6" deeper. Excavate cell E2.
- Collect confirmation samples from cells E3 and E2.
- Ship and receive intermodals.

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Thursday, April 10, 2003 4:38 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Butler-Veytia, Belinda; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 4/10/03

### Activities completed on Thursday, 04-10-03:

- Continued to excavate at tent #1. At cell E3 re-excavated and took a confirmation sample at 2.22' deep with a value of 4.07 pCi/g. Cell E2 confirmation was taken at 2.06' deep and was 0.0 pCi/g.
- A total of 10 Intermodals were filled today from Tent #1 at cells E3 and E2.
- Shipped 8 Intermodals offsite and received 8 empty containers. Loaded 8 containers on flatbeds and lined another 8 containers.
- Deconned equipment at Tent #1 (forklift / trackhoe).

### Activities planned for Friday, 04-11-03:

- Start excavation activities in tent #2 at cells S4 through S6.
- Downpcr tent #1, backfill cells D7 through E3 and setup tent #1 for the last pull to the east on the north row.
- Ship and receive intermodals.

## Lindsay, Thomas

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; McQueary, Steven; Paris, Steve; Bemski, Mike; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 4/11/03

### Activities completed on Friday, 04-11-03:

- Started excavation activities again at tent #2. Removed asphalt on cells S4 through S6, filled 4 intermodals of asphalt.
- Excavated soil on cells S4 and S6. Confirmation samples taken at cells S4 and S6 were 10.78 pCi/g at 2.52' deep and 47.1 pCi/g at 2.18' deep. Both samples failed and the cells will be overexcavated on Monday.
- A total of 11 Intermodals were filled today from Tent #2 at cells S4 and S6, (4 asphalt and 7 soil).
- Shipped 8 Intermodals offsite and received 10 empty containers.
- Downposted tent #1 and backfilled cells D7 through E3 with roadbase.
- Preparing to move tent #1 by moving the entrance connex, disconnected Ionex air mover, etc.

### Activities planned for Monday, 04-14-03:

- Continue excavation activities in tent #2 at cells S4 through S6.
- Complete preparatory activities for moving tent #1 and move tent #1 to the east.
- Ship and receive intermodals.

**Lindsay, Thomas**

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**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Butler-Veytia, Belinda; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 4/14/03

**Activities completed on Monday, 04-14-03:**

- Continue excavation activities at tent #2. Removed asphalt on cells S1 through S3, filled 4 intermodals of asphalt.
- Excavated soil on cells S4, S5, S6 and S1. After re-excavation of cells S4/S6 confirmation samples were taken at cells S4 through S6. S4 was 0.0 pCi/g at 3.4' deep, S5 was 3.5 pCi/g at 2.84' deep and S6 was 2.7 pCi/g at 3.2' deep.
- A total of 14 Intermodals were filled today from Tent #2 at cells S1 through S6, (4 asphalt and 10 soil).
- Shipped 4 Intermodals offsite and received 8 empty containers.
- Moved tent #1 to the east to capture the last asphalt on the north row. Reballasted the tent structure, changed the filters on the Ionex air mover, and placed the air mover and entry connex into position.

**Activities planned for Tuesday, 04-15-03:**

- Continue excavation activities in tent #2 at cells S1 through S3.
- Complete preparatory activities for tent #1 and smoke test it.
- Ship and receive intermodals.

## Lindsay, Thomas

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**From:** Lindsay, Thomas  
**Sent:** Tuesday, April 15, 2003 4:37 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Butler-Veytia, Belinda; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; McQueary, Steven; Bemski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 4/15/03

### Activities completed on Tuesday, 04-15-03:

- Continued excavation activities at tent #2. Excavated soil on cells S1, S2, and S3. A confirmation sample taken at cell S1 was 0.0 pCi/g at 3.5' deep.
- A total of 11 Intermodals were filled today from Tent #2 at cells S1 through S3, (1 asphalt and 10 soil).
- A correction to yesterday's report, no intermodals were shipped yesterday due to site internet glitches, however, 4 intermodals were shipped offsite today, received 5 empty containers and lined 6.
- Completed the setup activities at tent #1 in preparation for excavation activities. Performed a smoke test on tent #1 as well.

### Activities planned for Wednesday, 04-16-03:

- Continue excavation activities in tent #2 at cells S2 and S3.
- Ship and receive intermodals.

## Lindsay, Thomas

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**From:** Keating, Michael  
**Sent:** Wednesday, April 16, 2003 5:13 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Butler-Veytia, Belinda; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; McQueary, Steven; Bemski, Mike; Spence, Tracey; Lindsay, Thomas  
**Subject:** Daily Update 4/16/03

### Activities completed on Wednesday, 04-16-03:

- Continued excavation activities at tent #2. Excavated soil on cells S2, and S3.
- A confirmation sample taken at cell S3.
- A confirmation sample was taken in S2, but bias sample showed elevated concentrations. The quadrant of S2 that contained the bias sample will be excavated an additional 6 inches.
- A total of 13 Intermodals were filled today from Tent #2 at cells S2 and S3.
- 8 intermodals were shipped offsite today, received 10 empty containers.

### Activities planned for Wednesday, 04-17-03:

- Safety Pause at T891
- Complete additional excavations in cell S2.
- Decon equipment in tent 2
- Begin asphalt excavation in tent 1
- Ship and receive intermodals.

### Mike Keating

903 Pad K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"We are confronted with insurmountable opportunities."**

**-Pogo**

## Lindsay, Thomas

**From:** Keating, Michael  
**Sent:** Thursday, April 17, 2003 5:16 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Butler-Veytia, Belinda; Horne, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; Foreman, Harry L.; Burmeister, Mark; Ferrari, Annette; McQueary, Steven  
**Subject:** Dailey Update

### Activities completed on Thursday, 04-17-03:

- Finished excavation activities at tent #2. Excavated additional soil on cells S2, and S3.
- A confirmation sample taken at cell S3.
- A bias sample was taken in S2
- Removed asphalt from E7-E9.
- A total of 3 Intermodals were filled today from Tent #2 and 6 intermodals from tent #1 (5 soil and 4 asphalt).
- Equipment was de-con'd in tent #2
- Backfill tent #2
- 8 intermodals were shipped offsite today, received 3 empty containers.

### Activities planned for Friday, 04-18-03:

- Continued soil excavation of E7-E9
- Complete backfill in tent #2
- Rig pulling cables for tent 2
- Pull tent #2
- De-rig tent #2

### Mike Keating

903 Pad K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"We are confronted with insurmountable opportunities."**

**-Pogo**



## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Friday, April 18, 2003 4:24 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; Lindsay, Thomas; McQueary, Steven  
**Subject:** 903 Pad Status Report 4/18/03

### Activities completed on Friday, 04-18-03:

- Completed backfill at tent #2, prepared and moved tent #2 to the west another six cells. Reballasted the tent, started setup activities for tent #2.
- Continued excavation at tent #1 over cells E7, E8 and E9. Took confirmation and random samples at E7 at depths 1.9' and 2.1' respectively with activities of 0.0 pCi/g. E9 confirmation sample was 0.0 pCi/g at 2.07' deep and E8 confirmation sample was 0.0 pCi/g at 2.08' deep.
- From tent #1 we filled 14 intermodals, (4 asphalt and 10 soil).
- 10 intermodals were shipped offsite today, received 3 empty containers.

### Activities planned for Monday, 04-21-03:

- Continued soil excavation of E4 through E6
- Complete setup on tent #2 and perform a smoketest.
- Continue shipping containers offsite and receive empty.

## Lindsay, Thomas

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; augilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 4/21/03

### Activities completed on Monday, 04-21-03:

- Completed setup operations at tent #2, performed a smoke test on the tent and everything is complete and ready for excavation again.
- Continued excavation at tent #1 over cells E4 through E6. At cells E4 - E6 we filled 10 intermodals today with soil.
- We had to build a temporary dike between these cells and cells E7 through E9 because of additional incidental water that poured in under the tent over the weekend. We anticipate approximately 7000 gallons came in over the weekend with the rain/snow. Operations were setup to pump water out of these cells tomorrow and take samples again of this water. Our intentions are to use this water as dust suppression after analytical results are received.
- Shipped 12 intermodals offsite today and received 10 empty containers.

### Activities planned for Monday, 04-22-03:

- We intend to jump back over at tent #2 and start excavation of asphalt and soil over cells R7 - R9 while laborers are pumping water from tent #1 into poly tanks. After the water is pumped we will complete the remaining excavation at tent #2 and removed the temporary dike/dam and take final confirmation samples at E4 through E6.
- Continue shipping containers offsite and receive empty containers.

## Lindsay, Thomas

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 4-22-03

### Activities completed on Tuesday, 04-22-03:

- Started excavation activities at tent #2, cells R7 through R9 due to the incidental water in tent #1. Filled 16 intermodals today at tent #2 (4 asphalt, 12 soil). Took three confirmation samples at R7 with a depth of 2.62' deep it was 1.08 pCi/g, cell R9 with a depth of 2.64' deep it was 3.52 pCi/g and then cell R8 failed at 83.52 pCi/g. This cell will be re-excavated.
- At tent #1 we spent all day pumping incidental water again from the rainwater which entered the tent at cells E7 through E9. Approximately 5000 - 6000 gallons of water was captured into poly tanks. URS took samples of this water with the intentions of using this later for dust suppression.
- Shipped 12 intermodals offsite today and received 7 empty containers.

### Activities planned for Wednesday, 04-23-03:

- We intend to jump back over to tent #1 and complete the excavation at cells E4 through E6 and take confirmation samples. After excavation is complete we will return back to tent #2, finish re-excavating cell R8 and the remaining cells.
- Decon equipment at tent #1, downpost and start backfilling.
- Continue shipping containers offsite and receive empty containers.

**Lindsay, Thomas**

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Ahnette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 4/23/03

**Activities completed on Wednesday, 04-23-03:**

- Resumed excavation activities at tent #1, cells E4 through E6 since the water has been pumped out. Filled 9 intermodals today at tent #1. Took three confirmation samples at cell E4 with a depth of 2.62' deep it was 0.0 pCi/g, the bias sample at E4 was 0.0 pCi/g at 2.37' deep, cell E5 was 0.0 pCi/g with a depth of 3.12' deep and cell E6 was 0.0 pCi/g at a depth of 2.57' deep.
- Shipped 12 intermodals offsite today and received 11 empty containers.

**Activities planned for Thursday, 04-24-03:**

- We intend to jump back over to tent #2 and complete the excavation at cell R8 and overexcavate it another 6" deeper. We will then followup on cells R4 through R6 .s.
- Decon equipment at tent #1, downpost and start backfilling. Prepare the tent to pull it south over the J grid.
- Continue shipping containers offsite and receive empty containers.

## Lindsay, Thomas

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 4/24/03

### Activities completed on Thursday, 04-24-03:

- Completed excavation activities at tent #1 today filling five intermodals. Work was hampered across the project site due to weather conditions.
- Deconned the forklift and trackhoe at tent #1. Stocked tent #2 with empty containers.
- Shipped 12 intermodals offsite today and received 11 empty containers.

### Activities planned for Friday, 04-25-03:

- Resume excavation activities back at tent #2 by over excavating cell R8 and working on cells R4 through R6.
- Downpost and start backfilling E cells at tent #1. Prepare to move tent #1 to the south over J grid.
- Continue shipping containers offsite and receive empty containers.

Thomas M. Lindsay

RISSER

T-124A

X5705

cell 994-2724

radio #3757

## Lindsay, Thomas

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilan.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; demos nick paris steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 4/25/03

### Activities completed on Friday, 04-25-03:

- Resumed excavation activities at tent #2 today filling 11 intermodals, (4 asphalt & 7 soil). Overexcavated cell R8 and took a confirmation sample at 4.01' deep it was 2.6 pCi/g as a preliminary screen.
- Downposted tent #1 today and backfilled cells E4 through E9. Moved the entry connex and the lonex air mover and prepared to move tent #1 to the south over the J grids.
- Shipped 12 intermodals offsite today and received 13 empty containers.

### Activities planned for Saturday, 04-26-03:

- A Forklift vendor will come onsite to install/mount a load cell on the forklift to help support operations in the tent structures for weighing the intermodals during blending operations.

### Activities planned for Monday, 04-28-03

- Continue excavation activities at tent #2 on cells R4 through R6.
- Move tent #1 first thing in the morning to the south over the J grids.
- At tent #1 on the west rolldown door have Cash Electric troubleshoot the operations of the door. A workorder has been written and submitted for this work.
- Continue to receive and ship intermodals.

**Thomas M. Lindsay**

**RISS/ER**

**T-124A**

**X5705**

**cell 994-2724**

**radio #3757**

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Monday, April 28, 2003 4:52 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 4/28/03

### Activities completed on Monday, 04-28-03:

- Resumed excavation activities at tent #2 today filling 8 intermodals. Took a confirmation and a field duplicate sample at cell R4 at 2.09' deep it was 14 pCi/g and 9.0 pCi/g respectively, both failed and we will over-excavate the cell again tomorrow another 6" deeper.
- Moved tent #1 to the south over the J grids. Set the Ionex air mover in place and hooked it up at tent #1. Set the entry connex in place as well.
- Gash Electric performed troubleshooting on the controls at the west roll-down door. The contacts were bad and the switch was replaced.
- Shipped 12 intermodals offsite today and received 6 empty containers.

### Activities planned for Tuesday, 04-29-03

- Continue excavation activities at tent #2 on cells R4 through R6. Re-excavate cell R4 an additional 6" deeper.
- Complete setup activities on tent #1 and perform smoke test.
- Continue to receive and ship intermodals

**Thomas M. Lindsay**  
**RISS/ER**  
**T-124A**  
**X5705**  
**cell 994-2724**  
**radio #3757**

## Lindsay, Thomas

**From:** Keating, Michael  
**Sent:** Tuesday, April 29, 2003 5:30 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; McQueary, Steven; Burmeister, Mark; Merrick, Roger; Butler, Lane; Primrose, Annette  
**Subject:** 903 Pad Status Report 4/29/03

### Activities accomplished for Tuesday, 04-29-03

- Continued excavation activities at tent #2 today filling 16 intermodals.
- The 3rd<sup>nd</sup> confirmation at cell R4 at 3.75 feet deep failed (>200 pCi/g Am). Will excavate an additional 6".
- The 3rd<sup>rd</sup> confirmation sample at cell R5 failed at 3.9 feet deep. Will excavate an additional 6".
- The 2nd<sup>nd</sup> confirmation sample at cell R6 passed at 3.75 feet deep.
- Tent #1 passed the smoke test.
- Shipped 8 intermodals offsite today and received empty containers.
- The Incidental Water Discharge Permit was completed and water stored from last weeks rain was started to be discharged to surface drainage.

### Activities planned for Wednesday, 04-30-03

- Continue excavation activities at tent #2 on cells R4 and R5.
- Continue to receive and ship intermodals
- Prepare tent 1 for intermodal blending on Thursday

### Mike Keating

903 Pad K-H Project Manager

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E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"We are confronted with insurmountable opportunities."**

**-Pogo**



**Serreze, Susan**

---

**From:** David Kruchek  
**Sent:** Wednesday, April 30, 2003 6:48 AM  
**To:** #ER Contact Records; Butler, Lane  
**Subject:** Re: 903 Pad Sampling at S2

Lane,

Sorry to stick my nose in...but I thought the limit of concern was 50 pCi/g? So why continue to remove soil if it is below the action level of 50 pCi/g?

David

>>> "Butler, Lane" <Lane.Butler@rfets.gov> 04/29/03 04:49PM >>>

On April 17, 2003 Lane Butler contacted Norma Castaneda of DOE and seperately called Tim Rehder of EPA to discuss the following issue at 903 Pad and inform them of our actions. Excavation at cell S2 had been completed on April 16th. The confirmation sample was collected with a field screening reading of 3.1 pCi/g. A random sample was collected with a field screening result of ~26 pCi/g. The normal procedure is to make decisions based on the confirmation sample results even with expected variation from the random sample. However, due to the significantly higher random sample results in this case, KH took the conservative action to excavate another six inches in the quadrant of the cell where the random sample was taken. After the extra excavation another sample was collected in the excavated quadrant with a result of 0 pCi/g. A decision by a member of the field crew was made to collect another field screening sample near the initial confirmation sample. The result of this sample was ~14 pCi/g. However, this sample was determined not to be consistent with procedure as a confirmation sample upon which to base excavation and backfill decisions. Consistent with the results of the initial confirmation the cell was backfilled and the tent was moved.

**Serreze, Susan**

---

From: Keating, Michael  
Sent: Wednesday, April 30, 2003 3:21 PM  
To: #ER Contact Records  
Subject: Voice Mail from Tim Rehder

Tim Rehder/EPA has approved the implementation of the RFCA Mods for remediation excavation at the 903 Pad project. The RFCA Mods include excavation to 50 pCi/g (or less) of Am from 0 to 3 feet of native soil, excavation to 1 nCi/g (or less) from 3-5 feet of native soil. If the soil is 1-3 nCi/g below 3 feet of native soil, consult with regulators prior to excavation.

**Mike Keating**

903 Pad K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"We are confronted with insurmountable opportunities."**

**-Pogo**

Serreze, Susan

---

From: Rehder.Timothy@epamail.epa.gov  
Sent: Wednesday, April 30, 2003 4:14 PM  
To: Keating, Michael  
Cc: #ER Contact Records; Gary Kleeman  
Subject: Re: Voice Mail from Tim Rehder

Clarification: the RFCA mods that we very much hope to sign soon calls for excavation of Pu (not Am) at activities greater than or equal to 50 pCi in the depth interval from 0-3ft. That depth measurement begins at the bottom of any man made slabs or pads. From 3-6 ft the cleanup goal is 1,000 pCi/g once an action has been triggered. The part on consultation with regulators when the activity is between 1 and 3 nCi/g does not apply at the 903 pad since that action has already been triggered.

"Keating,  
Michael"  
<#ERContactRecords@rfets.gov>  
<Michael.Keating@  
rfets.gov>  
04/30/03 03:21 PM

To: #ER Contact Records  
cc:  
Subject: Voice Mail from Tim Rehder

Tim Rehder/EPA has approved the implementation of the RFCA Mods for remediation excavation at the 903 Pad project. The RFCA Mods include excavation to 50 pCi/g (or less) of Am from 0 to 3 feet of native soil, excavation to 1 nCi/g (or less) from 3-5 feet of native soil. If the soil is 1-3 nCi/g below 3 feet of native soil, consult with regulators prior to excavation.

Mike Keating  
903 Pad K-H Project Manager  
Phone: 303.966.4815  
Nextel: 303.994.0691  
E-mail: michael.keating@rfets.gov

"We are confronted with insurmountable opportunities."  
-Pogo

## Lindsay, Thomas

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 4/30/03

### Activities accomplished for Wednesday, 04-30-03

- Continued excavation activities at tent #2 today filling 12 intermodals.
- Re-excavated cell R5 and took confirmation and random samples at depths of 4.64' and 4.72' deep respectively. Both samples were at 0.0 pCi/g preliminary screen.
- Re-excavated cell R4 several times today and took confirmation samples that exceeded the preliminary screen. We confirmed with the EPA by teleconference call this afternoon that we had excavated deep enough. The confirmation sample at R4 was 6.5 pCi/g at 5.48' deep and the field duplicate at 5.48' deep was 9.0 pCi/g from the preliminary screen. The depth of 5.48' was well below the required three feet natural soil material.
- Shipped 11 intermodals offsite today and received 17 empty containers.
- Discharged additional Incidental Water collected from last weeks precipitation based on the results and approval from surface water.

### Activities planned for Wednesday, 5-01-03

- Down-post tent #2 and start backfilling cells R4 through R9.
- At tent #1 we will resume blending operations with the new load cell that was recently installed on our forklift. Container # LO1234 (MHFU002332) will be blended down with other containers that have been identified with a lower activity and weight.
- Ship and receive additional intermodals.

Thomas M. Lindsay  
RISS/ER  
T-124A  
X5705  
cell 994-2724  
radio #3757

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Thursday, May 01, 2003 4:44 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 5/01/03

### Activities accomplished for Thursday, 5-01-03

- Down-posted tent #2 today and started decon operations on equipment. Encountered problems with the Ionex air mover at tent #2. The problem was corrected and work resumed. The remaining equipment was deconned at tent #2.
- At tent #1 today we blended one container, MHFU002332, with seven other existing containers that were identified with lower activity and gross weights.
- Loaded 17 intermodals on Cast flatbeds today, shipped 13 offsite today and received 10 empty containers..

### Activities planned for Friday, 5-02-03

- Backfill cells R4 through R9.
- Prepare to move tent #2 to the west.
- Resume normal excavation activities at tent #1 on the J cells.
- Ship and receive additional intermodals.

Thomas M. Lindsay  
RISS/ER  
T-124A  
X5705  
cell 994-2724  
radio #3757

**Lindsay, Thomas**

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/02/03

**Activities accomplished for Friday, 5-02-03**

- Started excavation in tent #1 over cells J7 through J9. Filled 16 intermodals (4 asphalt, 12 soil).
- Took three confirmation samples at cells J7 through J9. Cell J7 at 2.26' deep had a preliminary screen of 0.0 pCi/g, cell J9 at 2.61' deep had a preliminary screen of 0.0 pCi/g, cell J8 at 2.55' deep had a preliminary screen of 5.8 pCi/g. Cell J8 failed and will be re-excavated on Monday, (the 5.8 pCi/g with moisture corrected puts the Pu activity above 50 barely using our 8.08 ratio).
- At tent #2 we backfilled all the cells R4 through R9 and started preparations for pulling the tent on Monday. The Ionex air mover and entry connex were moved in preparation for the tent pull. HEPA filters were changed out on the Ionex air mover at tent #2..
- Shipped 13 intermodals offsite today and received 9 empty containers..

**Activities planned for Monday, 5-05-03**

- Continue excavation at tent #1 on cell J8 an additional six inches. Start excavation on cells J4 through J6.
- Move tent #2 to the west six cells. Setup tent #2 for excavation activities again, move in place the entry connex, Ionex air mover, generator, etc.
- Ship and receive additional intermodals.

Thomas M. Lindsay  
RISS/ER  
T-124A  
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radio #3757

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Monday, May 05, 2003 4:54 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 5/05/03

### Activities accomplished for Monday, 5-05-03

- Continued excavation in tent #1 over cells J4 through J6 and J8. Filled 6 intermodals (4 asphalt, 2 soil).
- Took one confirmation sample at cell J8 at a depth of 3.01' with the preliminary screen result at 1.8 pCi/g.
- At tent #2 we completed preparatory activities and moved the tent six cells west. Reballasted the tent structure, moved the ionex air mover into place and the entry connex.
- Shipped 12 intermodals offsite today and received 0 empty containers.

### Activities planned for Tuesday, 5-06-03

- Continue excavation activities at tent #1 on cells J4 through J6.
- Complete setup operations at tent #2 and perform smoke test.
- Ship and receive additional intermodals.

Thomas M. Lindsay  
RISS/ER  
T-124A  
X5705  
cell 994-2724  
radio #3757

**Lindsay, Thomas**

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**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/06/03

**Activities accomplished for Tuesday, 5-06-03**

- Continued excavation in tent #1 over cells J4 through J6. Filled 13 intermodals from J4 through J6 cells.
- Took two confirmation samples and one failed. At cell J6 at a depth of 2.66' deep, the preliminary screen was 0.0 pCi/g, the biased sample was also 0.0 pCi/g at a depth of 2.85' deep. At cell J5 a confirmation sample was taken at 2.45' deep and the preliminary screen result was 22.9 pCi/g. We will over excavate at cell J5.
- Today was probably the first day we have started to see signs of organics based on the PID instrument. Borehole #90998 data identifies organics which is close to our excavation area and the PID readings have started to increase.
- This afternoon we took an operational pause at tent #1 and changed out the filters in the ionex air mover.
- At tent #2 we performed a smoke test and it passed. Tent #2 is ready for excavation.
- Shipped 11 intermodals offsite today and received 14 empty containers.

**Activities planned for Wednesday, 5-07-03**

- Complete excavation activities at tent #1 on cells J4 and J5.
- Take confirmation samples at J4/J5, and then decon equipment.
- Possibly start excavation in tent #2 if work is completed at tent #1.
- Ship and receive additional intermodals.

**Thomas M. Lindsay**  
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**radio #3757**



**Lindsay, Thomas**

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**From:** Keating, Michael  
**Sent:** Wednesday, May 07, 2003 4:55 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; McQueary, Steven; Burmeister, Mark; Merrick, Roger  
**Subject:** 903 Pad Daily Status Report for 5/7/03

**Activities accomplished for Wednesday, 5-07-03**

- Continued excavation in tent #1 over cells J4 and J5. Filled 6 intermodals.
- Took one confirmation sample at cell J4 and J5 which indicated Pu<5-pCi/g.
- At tent #2 we completed preparatory activities and smoke tested
- Shipped 13 intermodals offsite today and received 12 empty containers.

**Activities planned for Thursday, 5-08-03**

- Continue excavation activities (1 intermodal) at tent #1 on cell J4.
- Begin Excavation in Tent 2.
- Ship and receive additional intermodals.

**Mike Keating**

903 Pad K-H Project Manager

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**"We are confronted with insurmountable opportunities."**

**-Pogo**

## Lindsay, Thomas

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/08/03

### Activities accomplished for Thursday, 5-08-03

- Completed excavation in tent #1 over cell J4. Deconned equipment at tent #1 and downposted the tent for backfill.
- Excavation crew move to tent #2 later in the morning and started excavation on R1 through R3 cells. Filled a total of 9 intermodals today, (1 at tent #1 and 8 at tent #2).
- Took one confirmation sample at cell R1. The first sample at R1 was at 2' deep and was 11.2 pCi/g. We went back and overexcavated took another sample at 3.13' deep and the preliminary result was 0.0 pCi/g.
- Shipped 13 intermodals offsite today and received 13 empty containers.

### Activities planned for Friday, 5-09-03

- Continue excavation activities at tent #2 on cells R2 and R3.
- Begin backfilling over cells J4 through J9 at tent #1.
- Prepare tent #1 for moving west on Monday.
- Ship and receive additional intermodals.

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## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Friday, May 09, 2003 6:00 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burnmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 5/09/03

### Activities accomplished for Friday, 5-09-03

- Continued excavation in tent #2 over cells R2 and R3. Filled a total of 7 intermodals today at tent #2.
- Took one confirmation sample and a bias sample at cell R3. The confirmation sample was 161 pCi/g at 2.74' deep and the biased sample was 0.84 pCi/g at 2.82' deep. We will overexcavate this cell again on Monday.
- Tent #1 we backfilled cells J4 through J9. Moved the entry connex, generator, and Ionex air mover aside. Prepared and moved tent #1 to the west six cells.
- Shipped 12 intermodals offsite today and received 10 empty containers.

### Activities planned for Monday, 5-12-03

- Continue excavation activities at tent #2 on cells R2 and R3.
- Complete setup activities at tent #1 and perform a smoke test.
- Ship and receive additional intermodals.

Thomas M. Lindsay  
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## Lindsay, Thomas

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; norland leee geimer raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; plappert robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bernski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/12/03

### Activities accomplished for Monday, 5-12-03

- Continued excavation in tent #2 over cells R2, R3 and the Q cells. Filled a total of 8 intermodals today at tent #2, (6 soil, 2 asphalt).
- Took two confirmation samples and a bias sample at cells R2/R3. The confirmation sample at cell R2 was 2.4 pCi/g at 2.88' deep. The confirmation and the biased sample at cell R3 was 1.9 pCi/g at 3.31' deep and 0.0 pCi/g at 3.37' deep respectively.
- At tent #1, Gash Electric came out again to work on the west rolldown door.
- Shipped 12 intermodals offsite today and received 13 empty containers.

### Activities planned for Tuesday, 5-13-03

- Continue excavation activities at tent #2 on cells Q7 through Q9.
- Complete setup activities at tent #1 and perform a smoke test.
- Ship and receive additional intermodals.

Thomas M. Lindsay  
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X5705  
cell 994-2724  
radio #3757

**Lindsay, Thomas**

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilan.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/13/03

**Activities accomplished for Tuesday, 5-13-03**

- Continued excavation in tent #2 over cells Q7 through Q9. Filled a total of 15 intermodals (13 soil, 2 asphalt) today at tent #2.
- Took one confirmation and one random sample at cell Q9. The preliminary screen for the confirmation and random samples were 0.0 pCi/g for both samples at 3.25' deep and 3.33' deep respectively.
- At tent #1 Envirocon installed the Ionex air mover and entry connex. They also performed a smoke test. This tent is ready for excavation activities.
- Shipped 12 intermodals offsite today and received 6 empty containers.

**Activities planned for Wednesday, 5-14-03**

- Complete excavation activities at tent #2 on cells Q7 and Q8.
- Decon equipment at tent #2.
- Ship and receive additional intermodals

**Thomas M. Lindsay**  
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**radio #3757**

## **Lindsay, Thomas**

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**From:** Keating, Michael  
**Sent:** Wednesday, May 14, 2003 5:45 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Paris, Steve; McQueary, Steven; Lindsay, Thomas  
**Subject:** Dailey Update for May 14

### **Activities accomplished for Wednesday, 5-14-03**

- Continued excavation in tent #2 on cells Q7 and Q8.
- Confirmation samples passed for Q7 and Q8.
- Intermodal Count:-Shipped: 7, Received: 15, Filled 10 (soil)
- Excavation was completed in tent #2.

### **Activities planned for Thursday, 5-15-03**

- Start excavation in tent #1 at J1-J3
- Backfill tent #2.
- Prepare tent #2 for moving
- Ship and receive additional intermodals

### **Mike Keating**

903 Pad K-H Project Manager

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Nextel: 303.994.0691

E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"We are confronted with insurmountable opportunities."**

**-Pogo**

## Lindsay, Thomas

---

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/15/03

### Activities accomplished for Thursday, 5-15-03

- Started excavation activities in tent #1 on cells J1 through J3. Filled 12 intermodals (3 asphalt, 9 soil) at tent #1.
- Took a confirmation sample at cell J1 with a preliminary screen of 0.0 pCi/g at 2.58' deep.
- Deposted tent #2 today, backfilled cells Q7 through Q9 and R1 through R3. Moved the lonex air mover, generator, and entry connex aside. Started preparations to pull tent #2 to the west an additional six cells.
- Received 14 intermodals today, shipped 0 offsite.
- Encountering more debris (small pieces of wood, old signs, sheet metal, etc.) during our excavation activities. Today was the first day we found a lid from an old 35 gallon drum. The project is required to pause when debris is found to have Radiological Operations survey the object and verify activity levels.

### Activities planned for Friday, 5-16-03

- Continue excavation activities in tent #1 at cells J2/J3 and the I cells
- Move tent #2 to the west and prepare for excavation activities.
- Ship and receive additional intermodals

**Thomas M. Lindsay**  
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**radio #3757**

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Friday, May 16, 2003 4:13 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'augilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 5/16/03

### Activities accomplished for Friday, 5-16-03

- Continued excavation activities in tent #1 on cells J2/J3 and I7 through I9. Filled 10 intermodals (3 asphalt, 7 soil) at tent #1.
- Took several confirmation samples today at cells J2/J3. Cell J2 confirmation with a preliminary screen of 0.0 pCi/g at 3.72' deep and cell J3 confirmation and random samples were 2.80 pCi/g at 2.52' deep and 0.0 pCi/g at 2.74' deep respectively.
- Moved tent #2 six cells to the west. Reballasted the tent structure, reinstalled the lonex air mover and entry connex. The Filter-Techs changed out the filters in the lonex Air mover at tent #2 today.
- Received 6 intermodals today, shipped 5 offsite.

### Activities planned for Monday, 5-19-03

- Continue excavation activities in tent #1 at the I cells.
- Perform a smoke test on tent #2 Monday and prepare it for excavation activities.
- Ship and receive additional intermodals

**Thomas M. Lindsay**  
**RISS/ER**  
**T-124A**  
**X5705**  
**cell 994-2724**  
**radio #3757**



**Lindsay, Thomas**

---

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilas.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/19/03

**Activities accomplished for Monday, 5-19-03**

- Continued excavation activities in tent #1 on cells I7 through I9. Filled 8 intermodals at tent #1.
- Took two confirmation samples today at cell I9 and I8. Cell I9 confirmation with a preliminary screen of 0.0 pCi/g was 2.20' deep and cell I8 at 1.94' deep was 8.95 pCi/g. I8 will need to be re-excavated tomorrow.
- At tent #2, completed prep activities and performed a smoke test. This tent is ready for excavation activities.
- Received 7 intermodals today, loaded nine on flatbeds but shipped 0 offsite.

**Activities planned for Tuesday, 5-20-03**

- Complete excavation activities in tent #1 at cells I8 and I7.
- Decon equipment, downposi and start backfilling activities at tent #1.
- Start excavation activities at tent #2.
- Ship and receive additional intermodals

**Thomas M. Lindsay**  
**RISS/ER**  
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**X5705**  
**cell 994-2724**  
**radio #3757**

**Lindsay, Thomas**

---

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Wiemelt, Karen; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; McQueary, Steven; Spence, Tracey; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/20/03

**Activities accomplished for Tuesday, 5-20-03**

- Completed excavation activities in tent #1 on cells I7 and I8. Filled 5 intermodals at tent #1.
- At tent #1 deconned equipment.
- Took two confirmation samples today at cells I8 and I7. Cell I8 confirmation with a preliminary screen of 0.0 pCi/g was 2.16' deep and cell I7 at 1.99' deep was 0.0 pCi/g. A field duplicate at I7 was 0.0 pCi/g at 1.99' deep.
- Started excavation activities in the afternoon jump at tent #2, cells Q4 through Q6. Filled 7 intermodals at tent #2 (4 asphalt 3 soil).
- Received 0 intermodals today, shipped 9 offsite.

**Activities planned for Wednesday, 5-21-03**

- Continue excavation activities in tent #2 at cells Q4 through Q6.
- Downpost tent #1 and backfill cells Q7 through Q9 and J1 through J3. Perform sampling on intermodal containers that were never sampled earlier in the project for VOA's (approximately 13 containers) at tent #1.
- Ship and receive additional intermodals.

**Thomas M. Lindsay**  
**RISS/ER**  
**T-124A**  
**X5705**  
**cell 994-2724**  
**radio #3757**

**Lindsay, Thomas**

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Wiemelt, Karen; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/21/03

**Activities accomplished for Wednesday, 5-21-03**

- Continued excavation activities in tent #2 on cells Q4 through Q6. Filled 11 intermodals at tent #2.
- Took several confirmation samples today at cells Q4 through Q6, only one passed, Q4, which is the hundredth cell for 903 Pad Project. At cell Q4 the preliminary screen was 0.0 pCi/g at a depth of 2.94' deep. Cells Q5 and Q6 did not pass and will be overexcavated.
- At tent #1 we down-posted the area, backfilled cells I7 through I9 and J1 through J3. Moved the tent another six cells to the west and reballasted the tent structure. The entry connex and Ionex Air mover were repositioned as well. The Filter Techs changed out the filters in the Ionex air mover today at tent #1.
- Received 6 intermodals today, shipped 6 offsite.

**Activities planned for Thursday, 5-22-03**

- Smoke test tent #1.
- The project will perform sampling on intermodal containers that were never sampled earlier in the project for VOA's (approximately 13 containers) at tent #1.
- No excavation activities will be performed to allow empty intermodals build up our inventory onsite.
- Ship and receive additional intermodals.

**Thomas M. Lindsay**  
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## Lindsay, Thomas

---

**From:** Keating, Michael  
**Sent:** Thursday, May 22, 2003 4:09 PM  
**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Wiernelt, Karen; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara; Nesta, Stephen  
**Cc:** Lindsay, Thomas; McQueary, Steven; Foreman, Harry L.; Merrick, Roger; Burmeister, Mark  
**Subject:** 903 Pad Daily Stays Report

### Activities accomplished for Thursday, 5-22-03

- Sampled 13 Intermodals for VOCs in tent
- Received 0 intermodals today, shipped 0 offsite.

### Activities planned for Friday, 5-23-03

- No work is planned

### Mike Keating

903 Pad K-H Project Manager

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**"We are confronted with insurmountable opportunities."**

**Pogo**

**Lindsay, Thomas**

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; aguilan.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/27/03

**Activities accomplished for Tuesday, 5-27-03**

- Completed excavation activities in tent #2 on cells Q5 and Q6. Filled 6 intermodals at tent #2.
- Took two confirmation samples today at cells Q5 and Q6. At cell Q6, 3.2' deep the preliminary screen was 0.0 pCi/g and cell Q5 at 2.9' deep the preliminary screen for the confirmation and field duplicate were both 0.0 pCi/g.
- Lined containers today in preparation for excavation activities.
- Received a total of 23 intermodals between today and last Friday, shipped 12 offsite today.

**Activities planned for Wednesday, 5-28-03**

- Start reprocessing operations (blend higher rad containers) at tent #1 cells I4 through I6.
- Down-post tent #2 and backfill cells Q4 through Q6. Move tent #2 to the west over the last remaining cells on row 4 of the pad.
- Ship additional intermodals.

**Thomas M. Lindsay**  
**RISS/ER**  
**T-124A**  
**X5705**  
**cell 994-2724**  
**radio #3757**

## **Lindsay, Thomas**

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/28/03

### **Activities accomplished for Wednesday, 5-28-03**

- Started reprocessing operations of intermodals at tent #1 at cells I4 through I6. We filled a total of 6 intermodals at tent #1 (3 asphalt, 3 soil). WEMS #L01639 was the container that was reprocessed with 3 new containers.
- Down-posted tent #2 and deconned the equipment. Backfilled cells Q4 through Q6 at tent #2. Moved tent #2 to the west and reballasted it.
- Lined additional containers today in preparation for excavation activities.
- Received 4 intermodals and shipped 5 offsite today.

### **Activities planned for Thursday, 5-29-03**

- Continue reprocessing operations at tent #1. Take confirmation samples at tent #1.
- At tent #2 prepare it for excavation activities. Hook up the generator and Ionex air mover. Place into position the entry connex. Perform a smoke test on the tent structure. Envirocon will excavate six cells in this tent location and then reverse excavation activities and excavate the last six cells. This will be the last location on Row 4 of the pad before it's pulled sideways to the south.
- Receive and ship intermodals.

**Thomas M. Lindsay**  
**RISS/ER**  
**T-124A**  
**X5705**  
**cell 994-2724**  
**radio #3757**

## Lindsay, Thomas

**To:** Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 5/29/03

### Activities accomplished for Thursday, 5-29-03

- Continued reprocessing operations of intermodals at tent #1 using cells I4 through I6. We filled a total of 4 intermodals at tent #1 from reprocessing operations. WEMS #L01406 was the container that was reprocessed with 3 new containers.
- Took a confirmation sample at cell I6 with a preliminary screen of 0.0 pCi/g at a depth of 2.44' deep. A random sample in cell I6 was taken at 2.46' deep and was 5.4 pCi/g. A confirmation sample was taken at cell I4 which did not pass, (9.2 pCi/g) and will be over-excavated tomorrow.
- At tent #2 repositioned the entry connex, generator and Ionex air mover. Envirocon is installing a fog system in each tent starting at tent #2 to help reduce the heat load/stress on the workers.
- Lined additional containers today in preparation for excavation activities.
- Received 15 intermodals and shipped 0 off site today.

### Activities planned for Friday, 5-30-03

- Continue reprocessing operations at tent #1. Take confirmation samples at tent #1.
- Complete installation of fog system at tent #2. Perform a smoke test on tent #2 to make it ready for excavation.
- Receive and ship intermodals.

**Thomas M. Lindsay**  
**RISS/ER**  
**T-124A**  
**X5705**  
**cell 994-2724**  
**radio #3757**

## Lindsay, Thomas

---

**From:** McQueary, Steven  
**Sent:** Friday, May 30, 2003 4:05 PM  
**To:** Lindsay, Thomas; Castaneda, Norma; Tyler, Reginald; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Paris, Steve; Bemski, Mike; Spence, Tracey  
**Subject:** 903 Pad Status Report 5/30/03

### Activities accomplished for Friday, 5-30-03

- Continued reprocessing operations of intermodals at tent #1 using cells I4 through I6. We filled a total of 4 intermodals at tent #1 from reprocessing operations. WEMS #L01406 was the container that was reprocessed with 3 new containers.
- Took a confirmation sample at cell I6 with a preliminary screen of 0.0 pCi/g. A random sample in cell I6 was taken and was 0.0 pCi/g. A confirmation sample was taken at cell I4 which passed at 1.3 pCi/g.
- Installed cooling system in tent #2 and passed smoke test.
- Lined additional containers today in preparation for excavation activities.
- Received 22 intermodals and shipped 5 offsite today.
- Shut operations down on site due to lightening nearby.

### Activities planned for Monday 6-2-03

- Continue reprocessing operations at tent #1. Take confirmation samples at tent #1.
- Load up and finish prep for excavation in tent #2.
- Receive and ship intermodals.

*Steven McQueary  
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(303) 994-3245 Cell  
Envirocon, Inc.*



**Lindsay, Thomas**

---

**From:** Keating, Michael  
**Sent:** Monday, June 02, 2003 5:05 PM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; Burmeister, Mark; Merrick, Roger; McQueary, Steven  
**Subject:** 903 Pad Daily Update for 6/2/03

**Activities accomplished for Monday, 6-02-03**

- Operations stopped in tent # 1 due to IONEX failure. Gash called to repair. Gash will order new coil.
- Began excavation in tent #2 in PM . Excavated 4 asphalt and 6 soil.
- Took a confirmation and bias sample at cell Q1 with a preliminary screen of 9.3 pCi/g and 10.8 pCi/g respectively. .
- Six additional inches will be excavated in cell Q1.
- Received 7 intermodals and shipped 5 offsite today.
- Continue to evaluate fog cooling system during working conditions

**Activities planned for Tuesday 6-3-03**

- Continue excavation operations at tent #2. Take confirmation samples at tent #2.
- Replace coil in tent #1 IONEX if replacement part is available
- Continue to evaluate fog cooling system
- Receive and ship intermodals.

**Mike Keating**

903 Pad K-H Project Manager

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E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"We are confronted with insurmountable opportunities."**

**-Pogo**

**Lindsay, Thomas**

**From:** Keating, Michael  
**Sent:** Tuesday, June 03, 2003 5:30 PM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; McQueary, Steven; Merrick, Roger; Burmeister, Mark  
**Subject:** 903 Pad Daily Update for 6/3/03

**Activities accomplished for Tuesday, 6-03-03**

- Continued excavation in tent #2.
- Filled 14 intermodals
- Confirmation and bias sample at cell Q1
- Cell Q3 is 2.5 feet into native soil with a gamma spec of 576 pCi/g. 6 inches of additional excavation will reach the 3 foot into native soil. If confirmation sample is <1nCi/g, excavation will stop.
- Received 0 intermodals and shipped 11 offsite today.
- An RCT had a hose disconnect from the regulator as he was exiting the tent. The DAC= 0.02, CO=3.8 ppm, and the VOC=0.4 ppm. A meeting was held with the tent crew to evaluate the cause and recommend additional corrective measures.

**Activities planned for Wednesday 6-4-03**

- Continue excavation operations at tent #2. Take confirmation samples at tent #2.
- Receive and ship intermodals
- Implement recommended corrective actions from 6/3/03 meeting.

**Mike Keating**

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**"We are confronted with insurmountable opportunities."**

**-Pogo**

**Lindsay, Thomas**

**From:** Keating, Michael  
**Sent:** Wednesday, June 04, 2003 5:02 PM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; McQueary, Steven; Merrick, Roger; Burmeister, Mark  
**Subject:** 903 Pad Daily Update for 06/04/03

**Activities accomplished for Wednesday, 6-04-03**

- Continued excavation in tent #2.
- Filled 14 intermodals
- Removed asphalt on cell P7-P9
- Confirmation samples passed at cell Q2, Q3, and P7
- Received 0 intermodals and shipped 0 offsite today.
- No one had any air hoses disconnect from the regulator

**Activities planned for Thursday 6-5-03**

- Continue excavation operations at tent #2. Take confirmation samples at tent #2.
- Receive and ship intermodals
- Continue to encourage air hose checks while in the tent
- Install new coil in tent #1 IONEX unit and test
- Prepare to move to Tent #1

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**"We are confronted with insurmountable opportunities."**

**-Pogo**

**Lindsay, Thomas**

**From:** Keating, Michael  
**Sent:** Thursday, June 05, 2003 4:43 PM  
**To:** 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; McQueary, Steven; Merrick, Roger; Burmeister, Mark  
**Subject:** 903 Pad Daily Update for 06/05/03

**Activities accomplished for Thursday, 6-05-03**

- Continued excavation in tent #2.
- Filled 13 intermodals
- Confirmation sample passed at cell P9
- Received 0 intermodals and shipped 0 offsite
- Installed new coil on tent #1 IONEX. IONEX still would not work. GASH will contact IONEX on Monday to trouble shoot.

**Activities planned for Friday 6-6-03**

- Complete excavation operations at tent #2. Take confirmation samples at cell P8.
- Downpost tent 2 and decon forklift
- Move tent 2 IONEX to tent 1
- Receive and ship intermodals
- Backfill tent 2

**Mike Keating**

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**-Pogo**

**Lindsay, Thomas**

---

**From:** McQueary, Steven  
**Sent:** Friday, June 06, 2003 4:27 PM  
**To:** Bean, Curtis; Blake, Chad; Broussard, Marcella; Burmeister, Mark; Butler, Lane; Foreman, Harry; Geimer, Raymond; Gernatt, Steven; Horne, Alan; Keating, Michael; Krogfuss, Barbara; Lindsay, Thomas; McQueary, Steven; Merrick, Roger; Nesta, Stephen; Norland, Lee; Plappert, Robert; Primrose, Annette; Rehder, Timothy; Shafer, Douglas; Smith, James; Snyder, Duke; Spreng, Carl; Wiemelt, Karen  
**Subject:** 903 Pad Daily Update for 06-06-03

**Activities accomplished for Friday, 6-6-03**

- Completed excavation activities for tent # 2
- Filled 5 intermodals, blended 1 intermodal # L01660
- Received 20 intermodals and shipped 0
- Moved Ionex unit from tent # 2 to tent # 1.
- Started blending activities in tent # 1
- Complete backfill of tent # 2
- Confirmation sample taken in cell I5 and failed at 292 pCi/g

**Activities planned for Monday 6-9-03**

- Continue blending operations in tent # 1
- Gash Electric to trouble shoot Ionex unit with manufacturer
- Receive and ship intermodals
- Setup and prep tent # 2 for excavation

*Steven McQueary  
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## Lindsay, Thomas

---

**From:** Keating, Michael  
**Sent:** Tuesday, June 10, 2003 6:47 AM  
**To:** 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Butler-Veytia, Belinda; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan  
**Cc:** Lindsay, Thomas; McQueary, Steven; Merrick, Roger; Burmeister, Mark  
**Subject:** 903 Pad Daily Update for 06/09/03

### Activities accomplished for Monday, 6-09-03

- Continued excavation/repackaging in tent #1.
- Filled 7 intermodals (2 asphalt)
- Repackaged 1 intermodal
- Confirmation sample passed at cell I5
- Received 0 intermodals and shipped 0 offsite
- Filter techs replaced filters on tent 1 IONEX
- GASH is working with IONEX to trouble shoot IONEX problem

### Activities planned for Tuesday 6-10-03

- Continue excavation/repackaging operations at tent #1..
- Repair IONEX
- Receive and ship intermodals
- Prepare tent 2 for excavation

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E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

**"We are confronted with insurmountable opportunities."**

**-Pogo**

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Tuesday, June 10, 2003 4:30 PM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Paris, Steve; Bemski, Mike; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 6/10/03

### Activities accomplished for Tuesday, 6-10-03

- Continued reprocessing operations of intermodals at tent #1 using cells I1 through I3. We filled a total of 5 intermodals at tent #1 from reprocessing operations. WEMS #L01670 and L01671 are the two containers that were reprocessed.
- Took a confirmation sample at cell I1 with a preliminary screen of 0.0 pCi/g at a depth of 3.16' deep.
- Gash Electric repaired the Ionex air mover at tent #2.
- At tent #2 repositioned the entry connex at the east side of the tent, placed the generator and Ionex air mover into position as well.
- Lined additional containers today in preparation for excavation activities.
- Received 12 intermodals and shipped 10 offsite today.

### Activities planned for Wednesday, 6-11-03

- Complete reprocessing operations at tent #1 over cells I2/I3. Take confirmation samples at tent #1.
- Complete connection of Ionex air mover to the tent and perform a smoke test on tent #2 to make it ready for excavation activities.
- Ship and receive intermodals offsite today.

**Thomas M. Lindsay**  
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**X5705**  
**cell 994-2724**  
**radio #3757**

**Lindsay, Thomas**

---

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilas.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Foreman, Harry L.; Rueter, Ruth; Snyder, Duke; Plappert, Robert; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Paris, Steve; Demos, Nick; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/11/03

Activities accomplished for Wednesday, 6-11-03

- Continued reprocessing operations of intermodals and normal excavation activities at tent #1 using cells I2/I3. We filled a total of 15 intermodals at tent #1 from reprocessing operations.
- Took two confirmation samples at cells I2/I3 with a preliminary screen of 0.0 pCi/g at a depth of 2.57' deep for the confirmation sample and 0.0 pCi/g at a depth of 2.83' deep for the biased sample at cell I2. Cell I3 was 2.9 pCi/g at 2.84' deep.
- Changed out the filters in the lonex air mover at tent #2 today and performed a smoke test.
- Lined additional containers today in preparation for excavation activities.
- Received 3 intermodals and shipped 11 offsite today.

Activities planned for Thursday, 6-12-03

- Complete remaining excavation activities in tent #1.
- Decon the equipment at tent #1 and downpost it.
- Start excavation activities at tent #2 pending intermodal status.
- Ship intermodals offsite.

**Thomas M. Lindsay**  
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**radio #3757**



## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Paris, Steve; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/12/03

### Activities accomplished for Thursday, 6-12-03

- Completed excavation activities at tent #1 today, cells I1 through I6 and filled 3 intermodals. Deconned the equipment, downposted the tent and started backfilling operations. Moved the entry connex, ionex air mover and generator out of the way.
- Started excavation activities in tent #2 cells P1/P2 this afternoon and filled 2 intermodals (asphalt). Currently we are out of intermodals and excavation operations have paused until new empty containers are received.
- Received 0 intermodals and shipped 5 offsite today.

### Activities planned for Friday, 6-13-03

- Intend to pull tent #1 to the west six cells.
- We will not excavate Friday and build up our inventory of intermodals again.
- Ship and receive intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Paris, Steve; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/13/03

Activities accomplished for Friday, 6-13-03

- Completed backfill operations at tent #1 over cells I1 through I6.
- Moved tent #1 six cells to the west and reballasted the tent structure.
- Filter techs changed out the filters at the ionex air mover for tent #1
- The empty intermodals that were received today were lined until lighting shut us down.
- Received 9 intermodals and shipped 12 offsite today.

Activities planned for Monday, 6-16-03

- Continue excavation activities on Monday at tent #2 over the P cells.
- Continue work at tent #1 and place the generator, connex and ionex air mover back in place. Prepare it for excavation activities again.
- Ship and receive intermodals.

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## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Paris, Steve; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/16/03

### Activities accomplished for Monday, 6-16-03

- Continue excavation activities at tent #2 for cells P1 through P3 filling 12 intermodals (2 asphalt, 10 soils).
- Took two confirmation samples at cells P3/P2. Cell P3 at 2.56' deep was 0.0 pCi/g. Cell P2 at 2.01' deep was 2.2 pCi/g.
- Envirocon continued setup work at tent #1. Placed the entry connex, generator, and ionex air mover into position.
- Gash electric worked on the Ionex air mover at tent #1 and rewired the motor leads with split nuts. They also started work on installing door controls at each rolldown door of tent #1 on the outside of the structure.
- The empty intermodals that were received today were lined.
- Received 12 intermodals and shipped 12 offsite today.

### Activities planned for Tuesday, 6-17-03

- Continue excavation activities on Tuesday at tent #2 over cells P1/P2.
- Gash electric will continue work at tent #1 on the door controls and motor leads.
- Perform a smoke test on tent #1.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilas.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/17/03

**Activities accomplished for Tuesday, 6-17-03**

- Continued excavation activities at tent #2 for cell P1 filling 9 intermodals, (8 soil and 1 asphalt).
- Took one confirmation sample at cell P1. Cell P1 at 2.73' deep was 0.0 pCi/g for the confirmation and field duplicate samples.
- Gash electric completed work on the Ionex air mover at tent #1 and rewired the motor leads with split nuts. They also completed work on installing door controls at each rolldown door of tent #1.
- The empty intermodals that were received today were lined.
- Received 4 intermodals and shipped 0 offsite today.

**Activities planned for Wednesday, 6-18-03**

- Continue excavation activities at tent #2 over cells P4 through P6.
- Ship and receive intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/18/03

**Activities accomplished for Wednesday, 6-18-03**

- Continued excavation activities at tent #2 for cells P4 through P6 filling 11 intermodals.
- Took one confirmation sample at cell P5. Cell P5 failed at 3.15' deep at 101.0 pCi/g and will be overexcavated tomorrow.
- The empty intermodals that were received today were lined.
- Received 9 intermodals and shipped 0 offsite today.

**Activities planned for Thursday, 6-19-03**

- Continue excavation activities at tent #2 over cells P4 through P6.
- Take confirmation samples at tent #2.
- Perform a smoke test at tent #1.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

---

**From:** Keating, Michael  
**Sent:** Thursday, June 19, 2003 4:16 PM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Krogfuss, Barbara  
**Cc:** Lindsay, Thomas; McQueary, Steven; Church, Gregory; Burmeister, Mark  
**Subject:** 903 Pad Daily Update

**Activities accomplished for Thursday, 6-19-03**

- Continued excavation activities at tent #2 for cells P4 through P6 filling 6 intermodals.
- Confirmation sample at cell P5 passed.
- The 20 top hinge intermodals that were received today
- Shipped 0 offsite today.
- GASH and Filter Techs worked on tent #1 IONEX in afternoon.
- Lightning restricted afternoon work

**Activities planned for Friday, 6-20-03**

- Continue excavation activities at tent #2 over cells P4 through P6.
- Take confirmation samples at tent #2.
- Perform a smoke test at tent #1.
- Ship and receive intermodals.

**Mike Keating**

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**"We are confronted with insurmountable opportunities."**

**-Pogo**

## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/20/03

### Activities accomplished for Friday, 6-20-03

- Completed excavation activities at tent #2 for cells P4 through P6 filling 11 intermodals.
- Took two confirmation samples at cells P4/P6. Cell P4 confirmation and random samples were 3.58' deep at 0.0 pCi/g and 3.06' deep at 0.0 pCi/g respectively. Cell P6 confirmation was 3.12' deep at 0.0 pCi/g.
- Deconned trackhoe and forklift at tent #2.
- Tent #1 smoke test passed today after the perimeter of the tent structure was sealed better. The ionex air mover was operating properly, no repairs were required.
- Continued to line intermodals that were received yesterday.
- Received 7 intermodals and shipped 0 offsite today.

### Activities planned for Monday, 6-23-03

- Start excavation activities at tent #1 over cells H7 through H9.
- Take confirmation samples at tent #1.
- Downpost tent #2, backfill the cells and move the tent to the south (side pull) on the last row of the 903 pad.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**cell 994-2724**  
**radio #3757**

## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/23/03

### Activities accomplished for Monday, 6-23-03

- Started excavation activities at tent #1 for cells H7 through H9 filling 18 intermodals, (4 asphalt, 14 soil).
- Implemented today, version 2.3 of the SAP and took the first composite confirmation samples at cells H7- H9. Took three confirmation samples and a field duplicate sample at cells H7- H9. Cell H7 confirmation sample was 0.0 pCi/g at 2.51' deep and the field duplicate sample was 0.0 pCi/g at 2.51' deep as well. Cell H9 was 2.0 pCi/g at 2.21' deep. Cell H8 did not pass at 1.96' deep it was 306 pCi/g and will be over-excavated tomorrow.
- Backfilled cells P1 through P6 at tent #2. Moved the generator, ionex air mover and entry connex out of the way and pulled tent #2 to the south over cells U1 through U6. Reballasted the tent structure.
- Continued to line intermodals that were received yesterday.
- Received 20 intermodals and shipped 4 offsite today.

### Activities planned for Tuesday, 6-24-03

- Continue excavation activities at tent #1 over cell H8 and H4 through H6.
- Take confirmation samples at tent #1.
- Reposition the entry connex, ionex air mover, and generator at tent #2 and perform a smoke test.
- Ship and receive intermodals.

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**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/24/03

**Activities accomplished for Tuesday, 6-24-03**

- Continued excavation activities at tent #1 for cells H4 through H6 and H8 filling 15 intermodals, ( 4 asphalt, 11 soil).
- Took two confirmation samples at cells H8/H4. Cell H8 confirmation sample was 0.0 pCi/g at 3.08' deep and cell H4 was 0.0 pCi/g at 1.96' deep.
- Filter techs replaced the filters in the ionex air mover at tent #2. Gash electric installed the door controls on the outside of the tent for the rolldown doors at tent #2.
- Repositioned the entry connex, ionex air mover, and generator at tent #2.
- Continued to line intermodals that were received.
- Received 2 intermodals and shipped 12 offsite today.

**Activities planned for Wednesday, 6-25-03**

- Minimal excavation activities at tent #1 tomorrow because the project is short on intermodals.
- Perform a smoke test on tent #2 in the morning to make it ready for excavation activities.
- Ship and receive intermodals.

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/25/03

Activities accomplished for Wednesday, 6-25-03

- Started work at tent #1 when a worker's breathing air hose disconnected. Work was shut down for the day and corrective actions implemented for SCBA respirators.
- Received 2 intermodals and shipped 12 offsite today.

Activities planned for Thursday, 6-26-03

- Depending on the number of intermodals received and respirators returned from laundry facilities we would continue excavation activities in tent #1.
- Perform a smoke test on tent #2 in the morning to make it ready for excavation activities.
- Ship and receive intermodals.

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**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/26/03

**Activities accomplished for Thursday, 6-26-03**

- Before work started, the project briefed all workers at the Plan of Day (POD) on the corrective actions for respirator inspection with a representative from Laundry, Gordon Phelps, who discussed their role in additional inspections and routine corrective measures (e.g. taping the hose joint to the adaptor on the respirator facepiece).
- Completed excavation activities at tent #1 for cells H5/H6 filling 9 intermodals.
- Took two confirmation samples at cells H5/H6. Cell H5 confirmation sample was 0.0 pCi/g at 2.9' deep and cell H6 was 0.0 pCi/g at 2.6' deep.
- Deconned the equipment at tent #1, down-posted the area, and started backfilling cells H4 through H9 at tent #1.
- Performed a smoke test on tent #2.
- The project set up an RMA at the 904 Pad to stage those intermodal containers that are "too hot and unsalvageable" for an interim period. The current congestion will be alleviated at the 903 Pad with these containers relocated.
- Continued to line intermodals that were received.
- Received 8 intermodals, (1 damaged/unusable) and shipped 12 offsite today.

**Activities planned for Friday, 6-27-03**

- Start excavation activities at tent #2 and take confirmation samples.
- Complete backfill of tent #1, move the ionex, generator, and entry connex out of the way and pull tent #1 to the west an additional six cells.
- Continue to relocate and stage intermodals from 903 to 904 pad.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; aguilas.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 6/27/03

Activities accomplished for Friday, 6-27-03

- Started excavation activities at tent #2 filling 2 asphalt containers. Encountered problems with the east roll-down door. Excavation activities were hampered and shut down for the remainder of the day until the door can be repaired.
- Completed backfilling cells H4 through H9 at tent #1. Moved the ionex, generator, and entry connex out of the way and pulled tent #1 to the west an additional six cells.
- Setup the ionex, generator, and entry connex at tent #1.
- Continued to line intermodals that were received.
- Received 24 intermodals, and shipped 11 offsite today.

Activities planned for Monday, 6-30-03

- Complete loadout of residual asphalt at tent #2. Troubleshoot the problem and repairs for the east access door. If the repairs are minor, repair the door, otherwise, jump back to tent #1 on Monday and resume excavation activities over cells G7 through H3.
- A minimal crew will come in on Saturday, 6/28/03, to smoke test tent #1 and make it ready for excavation activities as a backup plan in order to minimize down time if the rolldown door at tent #2 requires major repairs.
- Continue to relocate and stage intermodals from 903 to 904 pad.
- Ship and receive intermodals.

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9  
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**Lindsay, Thomas**

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**From:** Keating, Michael  
**Sent:** Monday, June 30, 2003 4:27 PM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Daily Status Update on 6/30/03

**Activities accomplished for Monday, 6-30-03**

- Finished excavation of asphalt at tent #2 for cells U1, U2 and U3 in AM
- Moved excavation activities to tent #1 due to east door repairs on tent #2.
- East rolldown door at tent #2 repaired.
- Excavated 12 intermodals in tent #1 in PM
- Confirmation sample in H1 exceeded 50 pCi/g. Additional 6" to be excavated on 7/1/03
- Received 14 intermodals, shipped 13 intermodals
- Continue to relocate and stage intermodals from 903 to 904 pad.
- Implement additional safety staff in the tent during excavation to observe SCBA usage.

**Activities planned for Tuesday, 7-1-03**

- Continue excavation in tent 1 of cells H2 and H3.
- Excavate additional 6" from H1.
- Continue to implement additional safety staff in the tent during excavation to observe SCBA usage.
- Continue to relocate and stage intermodals from 903 to 904 pad.
- Ship and receive intermodals.

**Mike Keating**

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**-Pogo**

## Lindsay, Thomas

**From:** Keating, Michael  
**Sent:** Tuesday, July 01, 2003 4:42 PM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Daily Status Update 07-01-03

### Activities accomplished for Tuesday, 07-01-03

- Continued excavation activities to tent #1 on H1 thru H3
- Excavated 16 intermodals in tent #1 in (1 asphalt [G7] 15 soil)
- Confirmation sample in H1 passed after additional 6" soil excavation
- Cell H2 failed at 9.7 pCi/g at 3.03 feet deep (2 extra 6" lift excavated)
- Cell H3 failed at 18.8 pCi/g at 3.33 feet (2 extra 6" lift excavated)
- Backhoe in tent #1 overheated due to broken water pump belt. Trackhoe was removed from the tent and replaced with 2<sup>nd</sup> trackhoe. Trackhoe will be repaired on 07-02-03
- Smoke tested both tents with fog cooling system operating
- Fog cooling system used in tent #1 during afternoon shift due to high ambient heat conditions after
- Received 20 intermodals, shipped 12 intermodals
- Continue to relocate and stage intermodals from 903 to 904 pad.
- Implement additional safety staff in the tent during excavation to observe SCBA usage.

### Activities planned for Wednesday, 7-2-03

- Continue excavation in tent 1 of cells H2 and H3.
- Continue to remove asphalt from cells G7-G9.
- Excavate soils from cells G7-G9
- Continue to implement additional safety staff in the tent during excavation to observe SCBA usage.
- Continue to use fog cooling system in tent as ambient temperatures dictate.
- Ship and receive intermodals.

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**-Pogo**

**Lindsay, Thomas**

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**From:** Keating, Michael  
**Sent:** Wednesday, July 02, 2003 4:27 PM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Daily Status Update for 07-02-03

Activities accomplished for Wednesday, 07-02-03

- Continued excavation activities to tent #1 on H2 and H3
- Excavated 14 intermodals in tent #1 in (2 asphalt 12 soil)
- Confirmation samples in H2 and H3 passed at 3-feet into native soil
- Removed asphalt from cells G7 thru G9 and started excavating soil
- Fog cooling system used in tent #1 during afternoon shift due to high ambient heat conditions after
- Received 3 intermodals, shipped 12 intermodals
- Implement additional safety staff in the tent during excavation to observe SCBA usage.

Activities planned for Thursday, 07-03-03

No work scheduled

Activities planned for Friday, 07-04-03

No work scheduled

Activities planned for Monday, 7-7-03

- Continue excavation in tent 1 of cells G7-G9.
- Continue to implement additional safety staff in the tent during excavation to observe SCBA usage.
- Continue to use fog cooling system in tent as ambient temperatures dictate.
- Ship and receive intermodals.

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**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/07/03

**Activities accomplished for Monday, 7-7-03**

- Continue excavation activities at tent #1 over cells G7 through G9 filling 19 containers.
- Took three confirmation samples at cells G7 through G9. Cell G9 was 3.7 pCi/g at 2.92' deep. Cell G7 was 0.0 pCi/g at 3.28' deep. Cell G8 failed at 6.3 pCi/g and will be over-excavated tomorrow.
- Continued to line intermodals that were received.
- Received 21 intermodals, and shipped 12 offsite today.

**Activities planned for Tuesday, 7-8-03**

- Complete excavation activities at tent #1. Take confirmation sample at cell G8 and decon the equipment.
- Downpost the tent structure and backfill cells G7 through H3. Prepare to move tent #1 to the west an additional six cells.
- Continue to relocate and stage intermodals from 903 to 904 pad.
- Ship 12 intermodals.

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**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/8/03

Activities accomplished for Tuesday, 7-8-03

- Completed excavation activities at tent #1 over cell G8 filling 1 container.
- Took two confirmation samples at cells G8 in tent #1 and U3 in tent #2. Cell G8 was 0.0 pCi/g at 2.90' deep and cell U3 was 0.0 pCi/g at 2.29' deep.
- Downposted tent #1 and started backfilling cells G7 through H3. Moved the ionex air mover, entry connex, and generator out of the way. Prepared to move tent #1 to the west.
- Resumed excavation activities at tent #2 over cells U1 through U3 filling 9 intermodals.
- Continued to line intermodals that were received.
- Received 2 intermodals, and shipped 12 offsite today.

Activities planned for Wednesday, 7-9-03

- Move tent #1 to the west an additional six cells. Reballast the tent and move equipment back into place.
- Continue to excavate at tent #2 over cells U1 - U3 and take confirmation samples.
- Continue to relocate and stage intermodals from 903 to 904 pad.
- Ship and receive intermodals.

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**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/09/03

Activities accomplished for Wednesday, 7-9-03

- Completed excavation activities at tent #2 over cells U2/U1 filling 7 intermodals.
- The project has encountered more problems with the overhead doors, specifically the east door at tent #2. The tents have been moved so many times the doors have been twisted and torqued making them hard to open / close. We are planning to backfill the cells and then move the tent to the far east side of the pad and work out of the west door.
- Took two confirmation samples at cells U1/U2. Cell U1 was 0.0 pCi/g at 2.62' deep and U2 was 0.0 pCi/g at 2.16' deep.
- At tent #1 pulled the tent west, reballasted the tent, repositioned the entry connex, generator, ionex air mover and performed a smoke test on tent #1. This tent is ready for excavation activities again.
- Continued to line intermodals that were received.
- Received 9 intermodals, and shipped 12 offsite today.

Activities planned for Thursday, 7-10-03

- At tent #2, decon the equipment, downpost the tent structure, backfill cells U1 - U3 and prepare to move the tent all the way to the east end of the pad.
- Start excavation activities at tent #1 over cells G4 through G6.
- Ship and receive intermodals.

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**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/10/03

Activities accomplished for Thursday, 7-10-03

- Filled one last intermodal from cell U1 at tent #2, deconned the equipment and moved back over to tent #1.
- Started excavation activities at tent #1 over cells G4 through G6 filling 9 intermodals.
- Took one confirmation sample at cell G4 which failed at 2.94' deep and screened at 6.5 pCi/g. This cell will be overexcavated tomorrow.
- At tent #2 down posted and backfilled cells U1 through U3. Moved the equipment out of the way and started preparatory work to pull the tent east.
- Continued to line intermodals that were received.
- Received 22 intermodals, and shipped 12 offsite today.

Activities planned for Friday, 7-11-03

- At tent #2, move the tent to the Y cells on the far east side of the pad. Reballast the tent and move the equipment back into place.
- Continue excavation activities at tent #1 over cells G4 through G6.
- Ship and receive intermodals

**Thomas M. Lindsay**  
**RISS/ER**  
**T-124A**  
**X5705**  
**cell 994-2724**  
**radio #3757**

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Monday, July 14, 2003 8:41 AM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Bernski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** RE: 903 Pad Status Report 7/11/03 - Revised

I revised the report to reflect 10 (instead of 12) were shipped and 19 (instead of 17) containers were received.

**Thomas M. Lindsay**  
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-----Original Message-----

**From:** Lindsay, Thomas  
**Sent:** Friday, July 11, 2003 4:18 PM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Demos, Nick; Bernski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 7/11/03 - Revised

### Activities accomplished for Friday, 7-11-03

- Continued excavation activities at tent #1 over cells G4 through G6 filling 9 intermodals.
- Took two confirmation samples at cells G4/G5. Cell G4 was 2.77 pCi/g at 3.40' deep. Cell G5 was 9.2 pCi/g at 3.44' deep and failed. G5 will be over excavated.
- Pulled tent #2 to the east of the 903 pad over cells Y4 - Y9. Reballasted the tent.
- Continued to line intermodals that were received.
- Received 19 intermodals, and shipped 10 offsite today.

### Activities planned for Monday, 7-12-03

- Continue excavation activities at tent #1 over cells G1 through G3 and G5/G6.
- Complete preparatory activities for tent #2 and perform a smoke test.
- Ship and receive intermodals

**Thomas M. Lindsay**  
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**cell 994-2724**  
**radio #3757**

**Lindsay, Thomas**

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Renier, Frank; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Bemski, Mike; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/14/03

**Activities accomplished for Monday, 7-14-03**

- Continued excavation activities at tent #1 over cells G5 through G6 filling 13 intermodals.
- Took two confirmation samples at cells G5/G6. Cell G5 was 3.3 pCi/g at 4.60' deep. Cell G6 was 4.1 pCi/g at 4.3' deep.
- Positioned equipment in place at tent #2. Performed a smoke test.
- Continued to line intermodals that were received.
- Received 14 intermodals, and shipped 11 offsite today.

**Activities planned for Tuesday, 7-15-03**

- Continue excavation activities at tent #1 over cells G1 through G3 and take confirmation samples.
- Tent #2 is ready for excavation activities. Marquez will repair the cutting edge on the trackhoe by welding on a new plate. Gash Electric will install a new ground rod at the site for small equipment.
- Receive intermodals

Thomas M. Lindsay  
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## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Demos, Nick; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/15/03

### Activities accomplished for Tuesday, 7-15-03

- Continued excavation activities at tent #1 over cells G1 through G3 filling 9 intermodals.
- Took two confirmation samples at cells G6/G3. Cell G6 was overexcavated again today and a new confirmation sample was taken which screened at 0.0 pCi/g at a depth of 4.9' deep. Cell G3 failed at 1.4 nCi/g and will be overexcavated.
- Project suffered downtime this afternoon because of lightning and changeout of HEPA filters at the ionex for tent #1. The filter-techs changed out the filters on the ionex air mover for tent #1.
- At tent #2 Marquez started work on welding a new cutting edge to the bucket of the trackhoe.
- Continued to line intermodals that were received.
- Received 16 intermodals, and shipped 0 offsite today.

### Activities planned for Wednesday, 7-16-03

- Continue excavation activities at tent #1 over cells G1 through G3 and take confirmation samples.
- Marquez will complete the welding of the cutting edge on the trackhoe bucket. Tent #2 is ready for excavation activities.
- Ship and receive intermodals

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**Lindsay, Thomas**

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**From:** Keating, Michael  
**Sent:** Wednesday, July 16, 2003 5:15 PM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; 'aguilar.mark@epa.gov'; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** McQueary, Steven; Lindsay, Thomas; Burmeister, Mark  
**Subject:** 903 Pad Daily Status Update for July 16

**Activities accomplished for Wednesday, 7-16-03**

- Continued excavation activities at tent #1 over cells G1 through G3 filling 8 intermodals. Excavated soil continues to have elevated rad concentrations.
- Confirmation samples at cell G3 was 86 pCi/g. An additional 6 inches will be excavated.
- Continued high rad conditions inside the tent has reduced production due to deconing intermodals
- Continued to line intermodals that were received.
- Received 9 intermodals, and shipped 11 offsite today.

**Activities planned for Thursday, 7-17-03**

- Continue excavation activities at tent #1 over cells G1 through G3 and take confirmation samples
- Tent #2 is ready for excavation activities.
- Ship and receive intermodals

**Mike Keating**

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

*"Rules are made for people who aren't willing to make up their own" Chuck Yeager*

**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; aguilar.mark@epa.gov; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Demos, Nick; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/17/03

Activities accomplished for Thursday, 7-17-03

- 903 Pad project suffered downtime today. The project has shut down temporarily due to soils excavated that were radiologically hotter than expected. An occurrence report was submitted to DOE and supervision was notified. All activities at the 903 Pad are suspended at this time.

Activities planned for Monday, 7-21-03

- A Justification for Continued Operations (JCO) is being drafted for review and approval in conjunction with new operational procedures.

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## Lindsay, Thomas

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**From:** Lindsay, Thomas  
**Sent:** Monday, July 21, 2003 5:26 PM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis 5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 7/21/03

### Activities accomplished for Monday, 7-21-03

- 903 Pad project suspended work activities last week until approvals are given to restart.
- A draft Justification for Continued Operations (JCO) and Crit Incredible evaluation were developed over the weekend by Nuclear Safety and Criticality Safety. Two additional draft operational orders were created to support restart. A status of actions items has been developed and will be reviewed daily to track the restart of operations.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilas.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/22/03

Activities accomplished for Tuesday, 7-22-03

- 903 Pad project work activities are still under suspension.
- A status of outstanding actions items are reviewed every day with key personnel. The JCO and Crit Incredible reports were developed and minor issues are being clarified.
- Crit training is scheduled Wednesday for the project work force.
- New WGI/WSRIC requirements for TRU/TRM are near completion.
- Current and new operational procedures are being reviewed for the project to ensure all controls and hazards have been addressed.
- When the 903 Pad project restarts, it will be carried out in a phased start-up mode.

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**Lindsay, Thomas**

---

**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/24/03

**Activities accomplished for Thursday, 7-24-03**

- 903 Pad project work activities are still under suspension.
- A status of outstanding actions items are reviewed every day with key personnel. The JCO and Crit Incredible reports have gone through several iterations and are close to being approved. Minor issues are outstanding.
- Crit training was completed Wednesday by all project personnel.
- New WGI/WSRIC requirements for TRU/TRM are near completion.
- New and revised operational procedures have been developed and are currently being reviewed for the project to ensure all controls and hazards have been addressed
- The project will be started up in a phased approach with each phase having distinct controls / requirements approved and implemented.

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**Lindsay, Thomas**

**To:** Castaneda, Norma; Dreith, Gary; McCallister, Russell; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; plappert robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/30/03

**Activities accomplished for Wednesday, 7-30-03**

- 903 Pad project was officially approved yesterday afternoon to restart, however, due to inclemental weather the project activities were still paused.
- Today, the project deconned the forklift at tent #1 and moved the two remaining TRU waste intermodals from tent #1 over to the temporary TRU waste storage area at the 904 Pad.
- Started excavation activities at tent #2 by removing asphalt at cells Y7/Y8 when the cutting edge broke on the bucket of the forklift. Workers deconned the second trackhoe at tent #1 and moved it over to tent #2. Filled 1 intermodal today.
- Continued to line intermodals that are currently staged at the site.
- Received 5 intermodals (these were 5 that were recently repaired locally in Denver and returned to the site today), and shipped 12 offsite today.

**Activities planned for Thursday, 7-31-03**

- Continue at tent #2 removing asphalt afterwhich we will implement our new procedure and prescreen the soil before excavating soil at cells Y7/Y8. Fill intermodals if soils screen as LL/LLMW and take confirmation samples.
- Continue working on phase II work control documents that will allow the excavation/packaging of TRU waste if encountered.
- Ship and receive intermodals.

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**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 7/31/03

**Activities accomplished for Thursday, 7-31-03**

- Continued excavation activities at tent #2 by removing asphalt at cells Y8/Y9 and filling intermodals with soil after pre-screening. Filled 7 intermodals today.
- Completed revisions and approvals of all phase II AB documents for the project. An IVR will be scheduled Monday next week for phase II work activities.
- Continued to line intermodals that are currently staged at the site.
- Received 0 intermodals and shipped 12 offsite today.

**Activities planned for Friday, 8-1-03**

- Continue excavation activities at tent #2 and take confirmation samples.
- Ship intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguiar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Demos, Nick; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/01/03

**Activities accomplished for Friday, 8-01-03**

- Continued excavation activities at tent #2 over cells Y7 through Y9 filling 16 intermodals (3 asphalt, 13 soils). Removed asphalt over cells Y4 through Y6 and prescreened cell Y6.
- Took three confirmation samples today at cells Y7, Y8 and Y9. Cell Y9 was 1.7 pCi/g at 2.5' deep, cell Y8 was 0.85 pCi/g at 2.03' deep, and cell Y7 was 0.0 pCi/g at 2.13' deep.
- Filter-techs changed out the prefilters on the Ionex air mover at tent #2 today.
- Continued to line intermodals that are currently staged at the site.
- Received 0 intermodals and shipped 12 offsite today. Container #MHFU001735 was crowned the winner today as the 1000th shipment, sounds like a party/celebration to me.

**Activities planned for Sunday, 8-3-03**

- Continue excavation activities at tent #2 over cells Y4 through Y6 taking confirmation samples.
- No receipt or shipments of intermodals are planned.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/03/03

**Activities accomplished for Sunday, 8-03-03**

- Continued excavation activities at tent #2 over cells Y4 through Y6 filling 13 intermodals (1 asphalt, 12 soils).
- Took two confirmation samples today at cells Y6/Y5. Cell Y6 was 0.0 pCi/g at 2.8' deep and cell Y5 was 0.0 pCi/g at 3.0' deep.
- Continued to line intermodals that are currently staged at the site.
- Received 14 intermodals on Saturday and shipped 0 offsite today.

**Activities planned for Monday, 8-4-03**

- Continue excavation activities at tent #2 over cells Y4/Y5 taking confirmation samples.
- Decon the equipment (trackhoe/forklift) and then move back to tent #1 and resume excavation activities, specifically cell G3 which required to be over-excavated.
- Authorize / approve phase II activities after the IVR has been conducted.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; foreman harry rueter ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Demos, Nick; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/04/03

**Activities accomplished for Monday, 8-04-03**

- Completed excavation activities at tent #2 over cell Y4 filling 7 intermodals.
- Took one confirmation sample today at cell Y4. Cell Y4 was 0.0 pCi/g at 2.4' deep.
- Deconned the backhoe/forklift at tent #2 and moved them over to tent #1.
- Downposted tent #2, backfilled cells Y4 through Y9. Moved the entry connex and generator. Prepared tent #2 to be moved west six cells.
- Approval was given on phase II activities, (prescreen/excavate - TRU/TRM soils).
- Prescreened cells G2/G1, and resumed excavation on G2 (LLW) filling 1 intermodal.
- Continued to line intermodals that are currently staged at the site.
- Received 2 intermodals (totaling 16 which includes Saturday) and shipped 12 offsite today.

**Activities planned for Tuesday, 8-5-03**

- Continue excavation activities at tent #1 on cell G3 (LLW) and take a final confirmation sample.
- Excavate top portion of soil on cells G2/G1 as TRU/TRM based on the prescreen sample results. Continue prescreening every 6" deep until concentration activities drop below TRU levels, (12nCi/g-Am).
- Move tent #2 to the west.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Spence, Tracey; Demos, Nick; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/06/03

**Activities accomplished for Wednesday, 8-06-03**

- Continued excavation activities at tent #2 filling 11 intermodals, (1 Potentially TRU & 11 LL).
- Overexcavated cell G3 and took a final confirmation sample at 6.07' deep was 5.4 pCi/g. This sample will over-ride all previous confirmation samples at G3 which is over 4' into the native soil. At cell G2 a confirmation sample failed at 3.38' deep which will be overexcavated tomorrow.
- Performed a smoke test on tent #2 today and is ready for excavation activities.
- Marquez welded a new cutting edge on the bucket of the trackhoe at tent #2.
- Continued to line intermodals that are currently staged at the site.
- Received 10 and shipped 10 intermodals.

**Activities planned for Thursday, 8-7-03**

- Complete excavation activities in cell G2 and take a confirmation sample.
- Decon the equipment at tent #1, downpost the tent and backfill cells G1 through G6 at tent #1.
- Start excavation activities tomorrow at tent #2 over cells Y1 through Y3.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

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**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/07/03

**Activities accomplished for Thursday, 8-07-03**

- Completed excavation activities at tent #1 filling 4 intermodals.
- Overexcavated cell G2 several times today and took a final confirmation sample at 5.08' deep that screened at 24 pCi/g. This sample is over 3' into the native soil and less than 1 nCi/g Pu.
- Deconned the trackhoe and forklift at tent #1, moved them outside the tent and down posted the tent for backfilling.
- At approximately 12:20 p.m. the site issued a lightning advisory that shut down all operations for the afternoon.
- Continued to line intermodals that are currently staged at the site.
- Received 6 and shipped 0 intermodals.

**Activities planned for Friday, 8-8-03**

- Backfill cells G1 through G6 at tent #1 and pull the tent west.
- Start excavation activities at tent #2 over cells Y1 through Y3.
- Take confirmation samples at the Y cells.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
**RISS/ER**  
**T-124A**  
**X5705**  
**cell 994-2724**  
**radio #3757**

**Lindsay, Thomas**

**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/08/03

**Activities accomplished for Friday, 8-08-03**

- Started excavation activities at tent #2 filling 9 intermodals (4 asphalt, 5 soil).
- Took a confirmation sample at cell Y3 which barely failed at 2.04' deep, 7 pCi/g. This cell will be overexcavated on Monday.
- Backfilled cells G1 through G6 at tent #1. Moved the entry cargo, generator and ionex air mover away from the tent.
- Moved tent #1 to the west, last move for this row. Reballasted the tent structure.
- Continued to line intermodals that are currently staged at the site.
- Received 10 and shipped 12 intermodals.

**Activities planned for Monday, 8-11-03**

- Complete setup of tent #1 over cells F1 through F9. Smoke test the tent in preparation for excavation activities.
- Continue excavation activities at tent #2 over cells Y1 through Y3.
- Take confirmation samples at the Y cells.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**radio #3757**

**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/11/03

**Activities accomplished for Monday, 8-11-03**

- Resumed excavation activities at tent #2 filling 17 intermodals (4 asphalt, 13 soil). Cells X7 through X9 were pre-screened as LLW material.
- Took four confirmation samples at cells Y1 through Y3 and X9. Cell Y1 was 2.6 pCi/g at 1.92' deep and the duplicate was 2.6 pCi/g at the same depth. Cell Y2 was 0.0 pCi/g at 1.65' deep. Cell Y3 was 0.0 pCi/g at 2.32' deep. Cell X9 failed at 53 pCi/g at 2.45' deep and will be over-excavated tomorrow.
- Moved equipment back into place at tent #1.
- Continued to line intermodals that are currently staged at the site.
- Received 11 and shipped 11 intermodals.

**Activities planned for Tuesday, 8-12-03**

- Continue excavation activities at tent #2 over cells X7- X9. Take corresponding confirmation samples at these three cells.
- Perform a smoke test on tent #1.
- Jump from tent #2 over to tent #1 after excavation is complete. Decon the equipment, down-post the tent and backfill cells X7 through Y3.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

---

**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/12/03

**Activities accomplished for Tuesday, 8-12-03**

- Completed excavation activities at tent #2 filling 15 intermodals.
- Took three confirmation samples at cells X9 through X7. Cell X9 was 0.0 pCi/g at 3.51' deep. Cell X8 was 0.0 pCi/g at 3.51' deep. Cell X7 was 0.0 pCi/g at 2.84' deep.
- Deconned the forklift at tent #2.
- Performed a smoke test at tent #1.
- Continued to line intermodals that are currently staged at the site.
- Received 3 and shipped 11 intermodals.

**Activities planned for Wednesday, 8-13-03**

- Start excavation activities at tent #1 over cells F7- F9. Remove asphalt and take prescreen samples over these cells. Take corresponding confirmation samples at these cells.
- Downpost tent #2 and backfill cells X7 through Y3, move equipment from tent #2 and pull it west.
- Continue to line intermodals.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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## Lindsay, Thomas

**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mar@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/13/03

### Activities accomplished for Wednesday, 8-13-03

- Started excavation activities at tent #1 filling 17 intermodals (13 soil, 4 asphalt) at cells F7 through F9.
- Took three confirmation samples at cells F9 through F7. Cell F9 was the only one that passed at 3.6 pCi/g it was 2.74' deep. Cells F8/F7 failed at 137 pCi/g 2.67' deep and 15.7 pCi/g at 2.07' deep respectively. These two cells will be over-excavated tomorrow.
- Down-posted tent #2 and backfilled cells X7 through Y3. Moved the ionex air mover, entry connex, and generator out of the way at tent #2. Started preparatory work for moving tent #2 to the west six cells.
- Continued to line intermodals that are currently staged at the site.
- Received 8 and shipped 11 intermodals.

### Activities planned for Thursday, 8-14-03

- Complete excavation activities at tent #1 over cells F7/F8 by over-excavating these two cells and taking final confirmation samples. Decon the equipment and downpost the tent to backfill cells F7 through F9.
- Move tent #2 to the west and setup operations for excavation activities.
- Continue to line intermodals.
- Ship and receive intermodals.

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**Lindsay, Thomas**

**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilas.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bernski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/14/03

**Activities accomplished for Thursday, 8-14-03**

- Completed excavation activities at tent #1 over cells F7 through F9 filling 7 intermodals.
- Took two confirmation samples at cells F7/F8. Cell F7 was 0.0 pCi/g at 2.14' deep. Cell F8 was 1.23 pCi/g at 3.21' deep.
- Deconned the forklift at tent #1, down-posted the area.
- Moved tent #2 to the west six cells and repositioned all the equipment (ionex air mover, entry connex, generator, etc.). Performed a smoke test on the tent.
- Continued to line intermodals that are currently staged at the site.
- Received 2 and shipped 12 intermodals.

**Activities planned for Friday, 8-15-03**

- Start excavation activities at tent #2 over cells X1 through X6. Take prescreen samples and proceed forward with excavation as dictated by the results, taking confirmation samples thereafter.
- Backfill F7 through F9 cells at tent #1. Reverse tent #1 with the entry connex at the east end. Set it up for excavation operations.
- Continue to line intermodals.
- Receive intermodals, no shipments are scheduled for Friday.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

---

**From:** McQueary, Steven  
**Sent:** Friday, August 15, 2003 4:07 PM  
**To:** Bemski, Mike; Butler, Lane; Demos, Nick; Foreman, Harry; Keating, Michael; Lindsay, Thomas; McQueary, Steven; Nesta, Stephen; Norland, Lee; Plappert, Robert; Snyder, Duke; Spence, Tracey; Wiemelt, Karen  
**Subject:** 903 Pad Daily Report 8/15/03

Activities accomplished for Friday, 8-15-03

- Started excavation activities at tent #2 over cells X4 through X6 filling 18 intermodals.
- Took four confirmation samples at cells X4-X6, X6 initial confirmation was 5.1 pCi/g and was re-excavated. Cell X4 was 0.0 pCi/g at 2.44' deep. Cell X5 was 0.0 pCi/g at 2.54' deep. Cell X6 was 0.0 pCi/g at 2.88' deep.
- Decontaminated the forklift at tent #2 for service tomorrow.
- Emptied 5 intermodals into the F7-F9 excavation. Last intermodal dumped contained samples and PPE trash. Stopped dumping material until a determination is made on path forward.
- Continued to line intermodals that are currently staged at the site.
- Received 14 and 2 from repair and shipped 0 intermodals.

Activities planned for Sunday, 8-17-03

- Continue excavation activities at tent #2 over cells X1 through X6. Take pre-screen samples and proceed forward with excavation as dictated by the results, taking confirmation samples thereafter.
- Continue to line intermodals.
- No receiving intermodals, no shipments are scheduled for Sunday.

*Steven McQueary  
(303) 966-4228 Office  
(303) 994-3245 Cell  
Envirocon, Inc.*



**Lindsay, Thomas**

---

**From:** McQueary, Steven  
**Sent:** Sunday, August 17, 2003 4:22 PM  
**To:** Bemski, Mike; Butler, Lane; Demos, Nick; Foreman, Harry; Keating, Michael; Lindsay, Thomas; McQueary, Steven; Nesta, Stephen; Norland, Lee; Plappert, Robert; Snyder, Duke; Spence, Tracey; Wiemelt, Karen  
**Subject:** 903 Pad Daily Activity for 8/17/03

Activities accomplished for Friday, 8-17-03

- Started excavation activities at tent #2 over cells X1 through X3 filling 15 intermodals.
- Took two confirmation samples at cells X2 and X3. The initial confirmation sample from cell X3 was 29.0 pCi/g at 2.88' deep. Additional excavation will be performed. Cell X2 confirmation was 6.6 pCi/g at 3.08' deep. Additional excavation will be performed. Excavation efforts were slowed down due to winds >20 mph in morning.
- Continued to line intermodals that are currently staged at the site.
- Received 0 intermodals and shipped 0 intermodals.

Activities planned for Sunday, 8-18-03

- Continue excavation activities at tent #2 over cells X1 through X3. Take pre-screen samples and proceed forward with excavation as dictated by the results, taking confirmation samples thereafter.
- Continue to line intermodals.
- Receiving intermodals and shipping intermodals are scheduled for Monday.

*Steven McQueary*  
*(303) 966-4228 Office*  
*(303) 994-3245 Cell*  
*Envirocon, Inc.*

## Lindsay, Thomas

**From:** Keating, Michael  
**Sent:** Tuesday, August 19, 2003 4:57 PM  
**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Lindsay, Thomas; McQueary, Steven  
**Subject:** 903 Pad Daily Status Update

### Activities accomplished for Tuesday, 8-19-03

- Completed excavation activities at tent #2 filling 4 intermodals with soil.
- No confirmation samples were collected
- Due to excess trash in the material dumped from intermodals into F7-F9, the soil and trash was excavated out of the cells. 7 intermodals were filled.
- Cells F7-F9 were backfilled with clean imported material
- Prepare tent #2 for move
- Continued to line intermodals that are currently staged at the site.
- Received 11 and shipped 11 intermodals.

### Activities planned for Wednesday, 8-20-03

- Complete backfill activities in tent #1
- Excavate cells F1-F3
- Move tent #2
- Ship and receive intermodals.

### Mike Keating

K-H Project Manager

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E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

*"Problems are just opportunities in work clothes" Henry Kaiser*

**Lindsay, Thomas**

---

**From:** Keating, Michael  
**Sent:** Thursday, August 21, 2003 5:03 PM  
**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burneister, Mark; Lindsay, Thomas; McQueary, Steven  
**Subject:** 903 Pad Daily Status Update

Activities accomplished for Thursday, 8-21-03

- Continued excavation activities at tent #1 filling 14 intermodals.
- Collected 3 confirmation samples: Cell F1 was 0.0 pCi/g at 2.7'. Cell F2 was 0.0 pCi/g at 1.4'. Cell F3 was 0.0 pCi/g at 2.8'.
- Continued to line intermodals that are currently staged at the site.
- Received 21 and shipped 13 intermodals.
- Repaired #2 IONEX and placed it on tent #2.

Activities planned for Friday, 8-22-03

- Continue excavation activities in tent #1 in cells F4-F6
- Collect confirmation samples as needed
- Smoke test tent #2
- Ship and receive intermodals.

**Mike Keating**

**K-H Project Manager**

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**E-mail:** [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

*"Problems are just opportunities in work clothes" Henry Kaiser*

## Lindsay, Thomas

**From:** Keating, Michael  
**Sent:** Thursday, August 21, 2003 5:25 PM  
**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Lindsay, Thomas; McQueary, Steven  
**Subject:** FW: 903 Pad Daily Status Update

See correction below for F2

### **Mike Keating**

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*"Problems are just opportunities in work clothes" Henry Kaiser*

-----Original Message-----

**From:** Keating, Michael

**Sent:** Thursday, August 21, 2003 5:03 PM

**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Lindsay, Thomas; McQueary, Steven

**Subject:** 903 Pad Daily Status Update

### Activities accomplished for Thursday, 8-21-03

- Continued excavation activities at tent #1 filling 14 intermodals.
- Collected 3 confirmation samples: Cell F1 was 0.0 pCi/g at 2.7'. Cell F2 was 1.4 pCi/g at 2.7'. Cell F3 was 0.0 pCi/g at 2.8'.
- Continued to line intermodals that are currently staged at the site.
- Received 21 and shipped 13 intermodals.
- Repaired #2 IONEX and placed it on tent #2.

### Activities planned for Friday, 8-22-03

- Continue excavation activities in tent #1 in cells F4-F6
- Collect confirmation samples as needed
- Smoke test tent #2
- Ship and receive intermodals.

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**Lindsay, Thomas**

**From:** Keating, Michael  
**Sent:** Friday, August 22, 2003 4:39 PM  
**To:** Castaneda, Norma; McCallister, Russell; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Krogfuss, Barbara  
**Cc:** Burmeister, Mark; Lindsay, Thomas; McQueary, Steven  
**Subject:** 903 Daily Status Update

Activities accomplished for Friday, 8-22-03

- Continued excavation activities at tent #1 filling 2 intermodals.
- Collected 2 pre-screen samples: Cell F4 was 204 pCi/g. Cell F5 was 5.6 pCi/g.
- Encountered a buried drum in cell F6/F3. Paused work. Convened a manager meeting to evaluate data and develop a path forward.
- The Crit Recovering Plan was developed for the buried drum and partially signed
- Continued to line intermodals that are currently staged at the site.
- Received 13 and shipped 12 intermodals.
- Smoke test in tent #2 failed.

Activities planned for Monday, 8-23-03

8/25?

- Complete signatures on the Crit Recovery Plan
- Relocate buried drum to drum spill tray for sampling
- Perform gamma spec analysis on soil contained in the drum
- Continue excavation activities in tent #1 in cells F4-F6
- Collect confirmation samples as needed
- Ship and receive intermodals.

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## Lindsay, Thomas

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**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/25/03

### Activities accomplished for Monday, 8-25-03

- Continued excavation activities at tent #1 filling 11 intermodals.
- Collected a confirmation sample at cell F5, 2.2' deep 0.0 pCi/g.
- The drum that was encountered on Friday was sampled. Only rocks and concrete debris were found in the drum. The rad readings were normal for concrete debris, PID readings were background, 1 ppm, for VOC's. A pre-screen sample was taken under-neath the drum at cell F6 and was 14 pCi/g at 6.2' deep.
- The Filter-techs changed out the filters for the Ionex Air mover on tent #1.
- Continued to line intermodals that are currently staged at the site.
- Performed a smoke test on tent #2
- Received 8 and shipped 12 intermodals.

### Activities planned for Tuesday, 8-26-03

- Continue excavation activities at cells F4 and F6 taking confirmation samples.
- Ship and receive intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/26/03

**Activities accomplished for Tuesday, 8-26-03**

- Continued excavation activities at tent #1 filling 16 (15 soil, 1 asphalt) intermodals from F4/F6.
- Collected a final confirmation sample at cell F4. F4 was over-excavated numerous times today and the final depth was 4.64' deep at 16.7 pCi/g. This is approximately 3.14' into the native soil.
- Continued to line intermodals that are currently staged at the site.
- Received 3 and shipped 12 intermodals.

**Activities planned for Wednesday, 8-27-03**

- Complete excavation activities at cell F6 in tent #1, decon the equipment, downpost and backfill the F cells.
- Excavation crew will move over to tent #2 and initiate repackaging LLW destined for NTS. Container #LO1991 will be repackaged into an IP2 container for preparation to ship next week to NTS. The project will start shipping 1 IP2 container per week to NTS.
- After repackaging one container into an IP2, excavation will commence at tent #2 on the W7-W9 cells.
- Ship and receive intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 8/27/03

**Activities accomplished for Wednesday, 8-27-03**

- Completed excavation activities at tent #1 filling 7 intermodals from cell F6.
- Collected a confirmation sample at cell F6. F6 was 1.3pCi/g at 3.12' deep. The field duplicate at F6 was 5.26 pCi/g.
- Deconned the equipment at tent #1, downposted the tent and started backfilling cells F1 through F6.
- At tent #2 the project repackaged a LLW container #LO1991 into an IP2 container #LO2450. This container will be the first LLW container shipped to NTS from the 903 Pad project.
- Continued to line intermodals that are currently staged at the site.
- Received 8 and shipped 12 intermodals.

**Activities planned for Thursday, 8-28-03**

- Start excavation activities at cell W7 through W9 at tent #2.
- Pull tent #1 to the south over the K cells, reballast tent #1.
- Ship and receive intermodals.

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**Lindsay, Thomas**

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Krogfuss, Barbara

**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** Activities accomplished for Wednesday, 8-27-03903 Pad Status Report 8/28/03

**Activities accomplished for Thursday, 8-28-03**

- Started excavation activities at tent #2 filling 11 (5 asphalt, 6 soil) intermodals from cells W9 - W7.
- Collected a confirmation sample at cell W9 but it failed at 7.8 pCi/g. This cell will be over-excavated on Tuesday of next week.
- Pulled tent #1 to the south over the K cells and reballasted the tent.
- Pulled the IP2 container #LO2450 out of tent #2 and sealing the liner and putting on the lid. This container is ready for shipment to NTS next week after MS approves the traveler.
- Continued to line intermodals that are currently staged at the site.
- Received 10 and shipped 15 intermodals.

**Activities planned for Tuesday, 9-02-03**

- Continue excavation activities at tent #2 over cells W9/W8/W7.
- Complete the setup activities at tent #1.
- Ship and receive intermodals.

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/02/03

**Activities accomplished for Tuesday, 9-02-03**

- Continued excavation activities at tent #2 filling 21 (a new daily record for 903)(4 asphalt, 17 soil) intermodals from cells W4 - W9.
- Collected three confirmation samples at cells W9/W8/W7. Cell W9 was 0.0 pCi/g at 3.3' deep, cell W8 was 1.3 pCi/g at 3.18' deep and cell W7 was 0.0 pCi/g at 3.1' deep.
- Hooked up the ionex air mover to tent #1, and placed the entry connex and generators into position.
- Continued to line intermodals that are currently staged at the site.
- Received 17 and shipped 12 intermodals.

**Activities planned for Wednesday, 9-03-03**

- Complete excavation activities at tent #2 over cells W4 - W6.
- Take confirmation samples at tent #2 and decon equipment.
- Smoke test tent #1.
- Ship and receive intermodals.

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; aguiar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/03/03

**Activities accomplished for Wednesday, 9-03-03.**

- Completed excavation activities at tent #2 filling 16 intermodals from cells W4 - W6.
- Collected three confirmation samples at cells W6/W5/W4. Cell W6 was 0.0 pCi/g at 2.75' deep, cell W5 was 0.0 pCi/g at 3.2' deep and cell W4 was 0.0 pCi/g at 3.2' deep.
- Deconned the equipment at tent #2.
- Continued to line intermodals that are currently staged at the site.
- Received 2 and shipped 12 intermodals.

**Activities planned for Thursday, 9-04-03**

- Repackage several (6) intermodals at tent #1. This will allow our inventory of empty intermodals to build up again.
- Downpost tent #2, backfill cells W4 - W9 and pull tent #2 to the west.
- Ship and receive intermodals.

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## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilan.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/04/03

### Activities accomplished for Thursday, 9-04-03

- At tent #1 the project topped out (added soil) six intermodals that barely exceeded the WAC for Envirocare to make them compliant, < 10 nCi/g. Later, the project commenced excavation activities at tent #1 over cells K1 - K3 removing asphalt and prescreening soils. At tent #1 they filled 5 intermodals (4 asphalt, 1 soils).
- At the K cells we encountered several buried slabs that were tied together. At this point we know two slabs are tied together and range 25' - 30' wide but we don't know how long they are. They extend from K3 cell to K2 cell. Tomorrow we will have a better idea as we uncover more of it. The slabs presently show no contamination based off of the smears taken by the RCT's.
- At tent #2 we down-posted, backfilled cells W4 through W9, moved the in rex, entry connex, etc and pulled the tent west six cells.
- Continued to line intermodals that were received today.
- Received 12 (9 for 903 & 3 for 750 pad) and shipped 12 intermodals.

### Activities planned for Friday, 9-05-03

- Continue excavation activities at tent #1 over cells K1 - K3. Remove and disposition the buried slabs, take confirmation samples.
- At tent #2 position equipment back into place and make it ready for excavation activities.
- Ship and receive intermodals.

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguilar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; Demos, Nick; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/05/03

### Activities accomplished for Friday, 9-05-03

- Continued excavation at tent #2 over the K cells. The slabs that were encountered measured approximately 25' x 30' and extended from K3 to K2 over to K5. A third slab was found that extended west from K2 outside the cell boundary and tent structure. This slab will be dealt with later when we address the lip area. The slabs were approximately 6" thick in the center and had a perimeter turndown grade beam or footer that was 18" thick.
- After the concrete debris was loaded, prescreen soil samples were taken and excavation continued. At tent #2 they filled 14 (2 concrete debris, 12 soil) intermodals.
- Confirmation samples were taken at cells K1 and K2. Cell K1 passed at 2.98' deep 0.0 pCi/g, cell K2 failed at 5.8 pCi/g 2.59' deep and will be over-excavated on Monday of next week.
- At tent #2 the project connected the ionex air mover, and repositioned the entry connex and generators. A smoke test was performed as well, this tent is ready for excavation activities again.
- Continued to line intermodals that were received today.
- Received 6 and shipped 12 intermodals.

### Activities planned for Monday, 9-08-03

- Continue excavation activities at tent #1 over cells K2/K3 and K4 through K6.
- Take confirmation samples at tent #1.
- Continue to line intermodals that are received.
- Ship and receive intermodals.

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**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/08/03

Activities accomplished for Monday, 9-08-03

- Continued excavation at tent #2 over the K cells. Filled 16 (1 concrete, 4 asphalt, 11 soil) intermodals today from K2, K3, and K4 through K6. Encountered another slab, approximately 10' x15' at cell K5.
- Took three confirmation samples, only 2 passed. Cell K2 was 1.2 pCi/g at 2.8' deep, cell K3 was 3.4 pCi/g at 2.94' deep and the field duplicate was 0.0 pCi/g at the same depth. Cell K4 failed at 6.4 pCi/g at 2.75' deep.
- Continued to line intermodals that were received today.
- Received 12 and shipped 6 intermodals.

Activities planned for Tuesday, 9-09-03

- Continue excavation activities at tent #1 over cells K4 through K6.
- Take confirmation samples at tent #1.
- Continue to line intermodals that are received.
- Receive intermodals.

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**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/09/03

Activities accomplished for Tuesday, 9-09-03

- 903 Pad project was not very productive today. We brought in only a skeleton crew to receive, and line intermodals. On Monday we used our last intermodal and were waiting for empties. Today, six containers arrived, but 3 were returned to the 750 pad for their use, so the 903 pad has 3 at this time.
- Received 6 (3 for 750 pad, 3 for 903 pad) and shipped 0 intermodals.

Activities planned for Wednesday, 9-10-03

- We expect a normal day and will continue excavation activities at tent #1 over cells K4 through K6.
- Take confirmation samples at tent #1.
- Continue to line intermodals that are received.
- Receive and ship intermodals. We are expecting anywhere from 24 to 28 empty intermodals to be returned from Envirocare.

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## Lindsay, Thomas

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**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/10/03

### Activities accomplished for Wednesday, 9-10-03

- Project completed tent #1 today except for 1 remaining intermodal. Cells K4 through K6 were excavated today filling 17 intermodals.
- Three confirmation samples were taken from cells K4/K5 and K6. K4 passed at 0.0 pCi/g 2.99' deep, K5 was 0.0 pCi/g at 3.64' deep after being over-excavated. Cell K6 was 0.0 pCi/g at 3.19' deep.
- Project lined intermodals that were received today.
- Received 26 containers and shipped 11.

### Activities planned for Thursday, 9-11-03

- Decon equipment at tent #1, downpost the tent and start backfilling cells K1 through K6. Move the ionex, entry connex, and generators out of the way and prepare to pull tent #1 to the east six cells.
- At tent #2 blend several containers using low activity soil from cells W1 through W3.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Friday, September 12, 2003 11:55 AM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 9/11/03

### Activities accomplished for Thursday, 9-11-03

- Finished filling one last intermodal at tent #1, deconned the equipment, downposted the tent, backfilled cells K1 through K6 and setup to pull the tent.
- Project moved over to tent #2 and removed asphalt over cells W1 through W3. Started blending operations again at these three cells. Container number LO 2077 was the selected container for blending operations. Filled a total of 8 intermodals (4 asphalt, 4 soils).
- Project lined intermodals that were received today.
- Received 16 containers and shipped 12.

### Activities planned for Friday, 9-12-03

- Continue blending operations at tent #2 over cell W1 through W3.
- Take confirmation samples at these cells.
- Pull tent #1 to the east six cells and reposition the equipment.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguiar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/12/03

### Activities accomplished for Friday, 9-12-03

- Project continues blending activities at tent #2. Container LO2122 was blended with lower activity soil from cells W1 through W3 filling 5 containers.
- The high winds hampered operations because the tent required to be downposted whenever the door was opened. We encountered winds most of the day over 20 mph.
- A confirmation sample was taken at cell W1 passed 0.0 pCi/g at 2.6' deep.
- Tent #1 was pulled to the east an additional six cells and reballasted.
- Project lined intermodals.
- Received 0 containers (except for 2 that were repaired locally) and shipped 9.

### Activities planned for Sunday, 9-14-03.

- Continue to blend at tent #2 containers with cells W2/W3.
- Take confirmation samples.
- Continue to setup tent #1 for excavation activities.
- Continue to line intermodals that are received.
- Receive intermodals.

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**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/14/03

**Activities accomplished for Sunday, 9-14-03**

- Project continued blending activities at tent #2. Container LO2116/LO2118 were blended with lower activity soil from cells W2/W3 filling 7 containers.
- Two confirmation samples were taken at cells W3/W2 but both failed. W2 was 7.6 pCi/g at 2.74' deep and W3 failed twice with the latest activity increasing 12 pCi/g and 56 pCi/g for the confirmation and field duplicate samples respectively.
- Outside support deconned the trackhoe at tent #1 in preparation for equipment maintenance on Monday.
- Project lined intermodals that were received this weekend.
- Received 20 containers and shipped 0.

**Activities planned for Monday, 9-15-03.**

- Complete blending activities at tent #2 for cells W2/W3. Resume normal excavation after blending is complete from the remaining cells V7 through V9.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/15/03

Activities accomplished for Monday, 9-15-03

- Project continued blending activities at tent #2 over cells W2/W3.
- Took two confirmation samples at W2/W3. Cell W2 at 2.75' was 0.0 pCi/g and W3 at 3.80' deep was 0.0 pCi/g for both the confirmation and field duplicate samples.
- Continued normal excavation activities this afternoon at cells V7 - V9 (no blending). Removed the asphalt and pre-screened the soils, all LLW. Filled a total of 13 (4asphalt, 9 soil) containers today.
- Received 2 containers and shipped 12.

Activities planned for Tuesday, 9-16-03.

- Continue excavation activities at tent #2 over cells V7-V9.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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## Lindsay, Thomas

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**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/16/03

### Activities accomplished for Tuesday, 9-16-03

- Project continued excavation activities at tent #2 over cells V7 through V9 filling 18 containers.
- Took three confirmation samples today but only two passed, V9/V8. Cell V9 at 3.5' deep was 0.0 pCi/g and V8 at 3.48' deep was 4.4 pCi/g. Cell V7 failed at 2.79' deep was 9.5 pCi/g, it will be over-excavated tomorrow.
- Continued to line intermodals that were received.
- Received 14 containers and shipped 12.

### Activities planned for Wednesday, 9-17-03.

- Complete excavation activities at tent #2 over cell V7.
- Take confirmation sample.
- First thing in the morning the Filter-Techs will change out the filters at the Ionex on Tent #2.
- After excavation is completed at tent #2, decon the equipment and move over to Tent #1. The ionex will be relocated to tent #1, reconnected and smoke tested before excavation activities commence.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**Lindsay, Thomas**

**From:** Keating, Michael  
**Sent:** Wednesday, September 17, 2003 4:54 PM  
**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; 'kleeman.gary@epa.gov'; Rehder, Timothy; Spreng, Carl; 'aguilar.mark@epa.gov'; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Bernski, Mike; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Daily Status Update

Activities accomplished for Wednesday, 9-17-03

- Completed excavation activities at tent #2 at cell V7. Confirmation sample was 0.0 pCi/g at 3.0 feet bgs
- Decon the equipment in tent #2 and move over to Tent #1. The lonex was relocated to tent #1, reconnected and smoke tested
- Removed asphalt in cells K7-K9 in tent #1
- Prescreen samples K9=21 pCi/g, K8=38nCi/g, K7=24 pCi/g. All values in Am.
- Filled 9 intermodals
- Continued to line intermodals that were received.
- Received 9 containers and shipped 12.

Activities planned for Thursday, 9-18-03.

- Start soil excavation activities at tent #1.
- Excavate K8 as per potential TRU waste procedures
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

**Mike Keating**

**K-H Project Manager**

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*"Problems are just opportunities in work clothes" Henry Kaiser*

**Lindsay, Thomas**

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; kleeman.gary@epa.gov; Rehder, Timothy; Spreng, Carl; aguiar.mark@epa.gov; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.c0om; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; Bemski, Mike; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/18/03

**Activities accomplished for Thursday, 9-18-03**

- Continued excavation activities at tent #1 at cells K7 through K9 filling 17 intermodals.
- After removing 1' of soil from cell K8 the prescreen dropped to 549 pCi/g (yesterday it was 38 nCi/g) - LLW material. Based on the waste samples taken from cell K8 no new TRU waste was generated, the field gamma results were 5.5 nCi/g and 4.3 nCi/g for containers LO2608 and LO2607.
- Three confirmation samples were taken today but only two passed, cell K9 was 2.88' deep 4.2 pCi/g and cell K8 was 4.2 pCi/g at 4.0' deep. Cell K7 failed and will be over-excavated tomorrow.
- Moved tent #2 to the west an additional six cells and reballasted it.
- Continued to line intermodals that were received.
- Received 15 (13 for 903, 2 other projects) containers and shipped 12.

**Activities planned for Friday, 9-19-03.**

- Continue excavation activities at tent #2 completing cell K7 and then moving on to the L cells.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

**Thomas M. Lindsay**  
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**radio #3757**

**Lindsay, Thomas**

**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; Gary Kleeman; Rehder, Timothy; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/19/03

**Activities accomplished for Friday, 9-19-03**

- Continued excavation activities at tent #1 cells K7 and L1 through L3 filling 11 intermodals.
- Removed asphalt from L1 through L3 cells and took prescreens. Cell L1 - 3.1nCi/g, L2 - 1.1nCi/g, L3 - 130 nCi/g.
- Took one confirmation sample at cell K7 4.02' deep was 0.0 pCi/g.
- After removing 1' of soil from cell L3 the prescreen dropped to 1.6 nCi/g - LLW material. Based on the waste samples taken from cell L3 no new TRU waste was generated, the field gamma results were 2.6 nCi/g and 5.1 nCi/g for containers LO2664 and LO2496.
- Continued to line intermodals that were received.
- Received 10 containers and shipped 12.

**Activities planned for Monday, 9-22-03.**

- Continue excavation activities at tent #2 on cells L3 - L1.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; Gary Kleeman; Rehder, Timothy; Spreng, Carl; harlen.ainscough@state.co.us; Mark Aguilar; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/22/03

Activities accomplished for Monday, 9-22-03

- Continued excavation activities at tent #1 cells L1 through L3 filling 16 intermodals.
- Took one confirmation sample at cell L3 3.44' deep was 4.1 pCi/g.
- Continued to line intermodals that were received.
- Received 19 containers (13- 903 Pad includes 2 IP2's, 6 - 374 Facility) and shipped 12.

Activities planned for Tuesday, 9-23-03.

- Complete excavation activities at tent #2 on cells L2 - L1.
- Take confirmation samples.
- Jump from tent #1 over to tent #2.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

**Thomas M. Lindsay**

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; Gary Kleeman; Rehder, Timothy; Spreng, Carl; harlen.ainscough@state.co.us; Mark Aguilar; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/23/03

Activities accomplished for Tuesday, 9-23-03

- Continued excavation activities at tent #1 cells L1 through L2 filling 13 intermodals.
- Took several confirmation samples repetitively at cells L2/L1 today. We stopped at cell L2 finally at 4.72' deep the confirmation was 26.9 pCi/g and the field duplicate was 16.3 pCi/g. At this point we are over 3' deep into the native soil. Cell L1 failed numerous times today and tomorrow should be our last excavation as well because we will be 3' into native soil.
- Continued to line intermodals that were received.
- Received 9 containers and shipped 12.

Activities planned for Wednesday, 9-24-03.

- Complete excavation activities at tent #1 on cell L1.
- Take confirmation sample.
- Jump from tent #1 over to tent #2. We will repack two containers into IP2's.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Bryson, Eva; Gary Kleeman; Rehder, Timothy; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/24/03

**Activities accomplished for Wednesday, 9-24-03**

- Completed excavation activities at tent #1 cell L1 filling 5 intermodals. Deconned the equipment, downposted the tent and started backfilling cells K7 through K9 and L1 through L3.
- Jumped to tent #2 and started removing asphalt filling 4 intermodals.
- Took one confirmation sample at cell L1 today. Cell L1 stopped at 5.19' deep 17.6 pCi/g. We were over 3' into native soil
- Continued to line intermodals that were received.
- Received 23 (14 for the Incinerator project, 9 for 903) containers and shipped 12.

**Activities planned for Thursday, 9-25-03.**

- Continue excavation activities at tent #2.
- Move tent #1 to the east.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/25/03

**Activities accomplished for Thursday, 9-25-03**

- Continue excavation activities at tent #2 over cells V4 through V6 filling 16' intermodals.
- Took two confirmation samples at cells V4/V5 today. Cell V4 at 2.02' deep was 0.0 pCi/g, cell V5 was 0.0 pCi/g at 2.50' deep.
- Moved tent #1 to the east over the M cells and reballasted it.
- Continued to line intermodals that were received.
- Received 14 (12 for 903, 2 returned from repairs) containers and shipped 12.

**Activities planned for Friday, 9-26-03.**

- Continue excavation activities at tent #2.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/29/03

**Activities accomplished for Monday, 9-29-03**

- Completed excavation activities at tent #2 over cells V1 through V3 filling 13 intermodals.
- Took three confirmation samples at cells V1/V2/V3 today. Cell V1 at 2.82' deep was 0.0 pCi/g, cell V2 was 0.0 pCi/g at 3.12' deep and V3 was 0.0 pCi/g at 3.32' deep for both the confirmation and F.D.
- Decconned the equipment at tent #2, downposted the tent and started backfilling operations.
- Filter-techs changed out the prefilters at the ionex air mover.
- Continued to line intermodals that were received.
- Received 18 containers and shipped 12.

**Activities planned for Tuesday, 9-30-03.**

- Commence excavation activities at tent #1 over the M cells.
- Take confirmation samples.
- Complete backfill operations at tent #2, reverse the tent.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 9/30/03

Activities accomplished for Tuesday, 9-30-03

- Commenced excavation activities at tent #1 over cells M1 through M3 filling 13 (3 asphalt, 10 soil) intermodals.
- Removed asphalt over the M cells and took prescreen samples of the soil.
- Completed backfilling operations at tent #2 over cells V1 through V6. Envirocon reversed the tent (i.e. moved the entry connex to the east end of the tent). Ionex #2 is back in service at tent #2 and is fully operational with a new control board.
- Filter-techs changed out the HEPA filters at ionex #1 air mover.
- Continued to line intermodals that were received.
- Received 13 containers and shipped 12.

Activities planned for Wednesday, 10-01-03.

- Continue excavation activities at tent #1 over the M cells.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

**Thomas M. Lindsay**  
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## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 10/01/03

### Activities accomplished for Wednesday, 10-01-03

- Continued excavation activities at tent #1 over cells M1 through M3 filling 14 intermodals.
- Took three confirmation samples at M1/M2/M3 in tent #1. Only cells M3 and M2 passed. Cell M3 at 2.97' deep was 0.0 pCi/g for the confirmation and F.D. samples, cell M2 was 34 pCi/g at 4.55' deep and extended over 3' into native soil. Cell M1 failed at 19 pCi/g at 3.65' deep and will be over-excavated.
- Performed a smoke test on tent #2.
- Continued to line intermodals that were received.
- Received 19 containers and shipped 12.

### Activities planned for Thursday, 10-02-03.

- Complete excavation activities at tent #1 and then jump to tent #2 for cells U4 through U9 cells.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Mark Aguilar; Spreng, Carl; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 10/02/03

**Activities accomplished for Thursday, 10-02-03**

- Continued excavation activities at tent #1 over cells M3 and M4 through M6 filling 12' (3 asphalt, 9 soil) intermodals.
- Took two confirmation samples at M1/M4 but only M1 passed in tent #1. Cell M1 at 4.38' deep was 0.0 pCi/g, cell M4 failed at 27 pCi/g at 2.26' deep.
- Continued to line intermodals that were received.
- Received 10 containers and shipped 12.

**Activities planned for Friday, 10-03-03.**

- No excavation activities are planned because the steel workers will be in 8 Hr. OSHA Refresher
- Continue to line intermodals that are received.
- Receive and ship intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Demos, Nick; Spence, Tracey; Bemski, Mike; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/06/03

**Activities accomplished for Monday, 10-06-03**

- Completed excavation activities at tent #1 over cells M4 through M6 filling 13 intermodals.
- Deconned the equipment and moved it over to tent #2.
- Took three confirmation samples at M4/M5/M6. Cell M4 at 2.95' deep was 2.41 pCi/g, cell M5 at 2.8' deep was 3.86 pCi/g, cell M6 at 2.48' was 2.34pCi/g.
- Continued to line intermodals that were received.
- Received 8 containers and shipped 12.

**Activities planned for Tuesday, 10-07-03.**

- Start excavation activities in tent #2 over the remaining U cells.
- Take confirmation samples.
- Backfill cells M1 through M6 at tent #1 and pull the tent east 6 cells.
- Continue to line intermodals that are received.
- Receive and snip intermodals.

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## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Tuesday, October 07, 2003 5:27 PM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gematt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Home, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; Demos, Nick; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/07/03

### Activities accomplished for Tuesday, 10-07-03

- Started excavation activities at tent #2 over cells U4 through U6 filling 8 (4 asphalt, 4 soil) intermodals.
- Took one confirmation samples at cell U4. Cell U4 at 1.86' deep was 0.0 pCi/g.
- Backfilled cells M1 through M6 at tent #1, moved the equipment aside and pulled tent #1 to the east six additional cells.
- Continued to line intermodals that were received.
- Received 4 containers and shipped 12.

### Activities planned for Wednesday, 10-08-03.

- Continue excavation activities in tent #2 over the remaining U cells.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; Demos, Nick; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 10/08/03

**Activities accomplished for Wednesday, 10-08-03**

- Continued excavation activities at tent #2 over cells U5 through U7 filling 18 (1asphalt, 17soil) intermodals.
- Took two confirmation samples at cells U5/U6. Cell U5 at 3.01' deep was 0.0 pCi/g, cell U6 at 2.9' deep was 0.0 pCi/g.
- Removed asphalt from cell U7 and took a prescreen sample - LLW.
- At tent #1 setup equipment to prepare it for excavation activities again.
- Continued to line intermodals that were received.
- Received 14 containers and shipped 12.

**Activities planned for Thursday, 10-09-03.**

- Complete excavation activities in tent #2 over the remaining U cells.
- Take confirmation samples.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 10/09/03

Activities accomplished for Thursday 10-09-03

- Continued excavation activities at tent #2 over cells U7 through U9 filling 13 (3 asphalt, 10 soil) intermodals.
- Took two confirmation samples at cells U7/U8. Cell U7 at 2.43' deep was 1.21 pCi/g, cell U8 at 2.65' deep was 4.60 pCi/g.
- Removed asphalt from cell U8/U9 and took prescreen samples - LLW.
- At tent #1 completed setup and smoke tested the tent.
- Continued to line intermodals that were received.
- Received 9 containers and shipped 12.

Activities planned for Friday, 10-10-03.

- Complete excavation activities in tent #2 over cell U9 and take confirmation sample.
- Repack several intermodals at tent #1 in IP2 containers.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**Lindsay, Thomas**

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**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 10/10/03

**Activities accomplished for Friday 10-10-03**

- Continued excavation activities at tent #2 over cells U8/U9 filling 9 intermodals. Completed tent #2 except for one more intermodal.
- Took two confirmation samples at cells U8/U9. Cell U8 was over-excavated today because the preliminary results exceeded 5.0 pCi/g and a new confirmation sample was taken. Cell U8 at 3.08' deep was 0.0 pCi/g, cell U9 at 3.71' deep was 0.0 pCi/g.
- Continued to line intermodals that were received.
- Received 13 containers and shipped 12.

**Activities planned for Monday, 10-13-03.**

- Complete excavation activities in tent #2 over cell U9.
- Backfill cells U4 - U9 and prepare to pull tent #2 north over the L/M cells.
- Repack several intermodals at tent #1 in IP2 containers or start excavation activities in tent #1 at cell M7-M9.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Monday, October 13, 2003 4:54 PM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/13/03

### Activities accomplished for Monday 10-13-03

- Completed excavation activities at tent #2 over cell U9 filling 2 intermodals.
- Down-posted tent #2 and backfilled cells U4 - U9.
- Repacked 3 intermodals at tent #1 into IP2 containers.
- Continued to line intermodals that were received.
- Received 12 (turned 5 over to 865) containers and shipped 12.

### Activities planned for Tuesday, 10-14-03.

- Complete repackaging effort at tent #1 by repacking the last IP2.
- Pull tent #2 to the east and then north over the L/M cells.
- Start excavation activities at cells M7- M9.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

Thomas M. Lindsay  
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cell 994-2724  
radio #3757

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Wednesday, October 15, 2003 6:57 AM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/14/03

### Activities accomplished for Tuesday 10-14-03

- Completed repackage of 1 intermodal at tent #1 into an IP2 container.
- Started excavation at the M7 - M9 cells filling 4 intermodals. Took pre-screen samples all LLW.
- Pulled tent #2 to the east 25 feet, we will complete the pull tomorrow pulling it north over the L/M cells.
- Continued to line intermodals that were received.
- The project incurred a near miss today when a worker was bumped by a container. New controls are being instituted within the tent structure.
- Received 12 (turned 5 over to 865) containers and shipped 11.

### Activities planned for Wednesday, 10-15-03.

- Pull tent #2 to the north over the L/M cells.
- New controls will be instituted before work commences inside the tent.
- Continue excavation activities at cells M7- M9.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

**Thomas M. Lindsay**  
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**radio #3757**

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Wednesday, October 15, 2003 5:14 PM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/15/03

### Activities accomplished for Wednesday 10-15-03

- Pulled tent #2 to the north over the L/M cells.
- Continued to line intermodals that were received.
- The project spent most of the day re-briefing workers on JHA's, revising current JHA's and instituting other corrective actions.
- Received 10 (turned 4 over to 865) containers and shipped 11.

### Activities planned for Thursday, 10-16-03.

- Recommence excavation activities at cells M7- M9 with new job controls .
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 10/16/03

**Activities accomplished for Thursday 10-16-03**

- Started excavation activities again at tent #2 over cells M7 through M9 filling 8 intermodals.
- Took a confirmation sample at cell M7 2.05' deep at 1.0 pCi/g.
- Continued to line intermodals that were received.
- The project setup tent #2 with the ionex and entry connex.
- Received 19 (turned 5 over to 865) containers and shipped 12.

**Activities planned for Friday, 10-17-03.**

- Continue excavation activities at cells M8/M9.
- Take confirmation samples.
- Preparing the project to start TRU waste repackaging next week.
- Continue to line intermodals that are received.
- Receive and ship intermodals.

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## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; shafer douglas keating michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/17/03

### Activities accomplished for Friday 10-17-03

- Completed excavation activities again at tent #1 over cells M7 through M9 filling 7 intermodals.
- Took two confirmation samples at cells M8/M9. M8 was 0.0 pCi/g at 3.0' deep, M9 was 0.0 pCi/g at 2.08' deep.
- Continued to line intermodals that were received.
- Received 9 containers and shipped 12.

### Activities planned for Monday, 10-20-03.

- Decon the equipment at tent #1, downpost the tent, backfill cells M7- M9 and pull the tent east an additional 3 cells to be over the last 12 cells at the 903 Pad project. At this location the project will repack the four TRU waste intermodals into SWB's starting mid week in tent #1.
- Prepare the project to start TRU waste repackaging next week.
- Continue to line intermodals that are received.
- Receive and ship intermodals

**Special Note:** On Monday of next week we may not issue a status report because Mike Keating and I will be relocating our offices from T-124A over to T-130F and will not have access to a computer for a day or so. Please bear with us.

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## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Monday, October 20, 2003 5:17 PM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/20/03

### Activities accomplished for Monday 10-20-03

- Filled one container at tent #1 to complete excavation activities. Deconned the equipment and downposted the tent, backfilled cells M7 - M9.
- Steelworkers / E2 were trained in the afternoon on WIPP requirements (WAP/TWCP videos).
- Continued to line intermodals that were received.
- Received 7 (5 were turned over to 865) containers and shipped 8.

### Activities planned for Tuesday, 10-21-03.

- Pull tent #1 to the east one cell width, 26 feet, and setup operations for repackaging.
- Complete all procedures, training, and logistics for phase III operations.
- Perform a dry run in the afternoon on repackaging activities.
- Prepare the project to start TRU waste repackaging activities on Wednesday.
- Continue to line intermodals that are received.
- Receive and ship intermodals

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## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Tuesday, October 21, 2003 6:12 PM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/21/03

### Activities accomplished for Tuesday 10-21-03

- Pulled tent #1 east over the remaining 12 cells. Reballasted the tent and prepared it for phase III activities of repackaging TRU waste.
- A dry run was conducted at tent #1 with the workers.
- Steelworkers / E2 were trained on additional procedures and documents for phase III work. An IVR was conducted at the end of the day to confirm the project was prepared to start phase III.
- Continued to line intermodals that were received.
- Received 8 containers and shipped 0.

### Activities planned for Wednesday, 10-22-03.

- Start phase III operations of repackaging TRU waste from intermodals into WIPP compliant 6WB's after the LOG's revised/updated.
- Continue to line intermodals that are received.
- Receive and ship intermodals

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## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Friday, October 24, 2003 10:53 AM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/23/03

### Activities accomplished for Thursday 10-23-03

- The phase III IVR was approved and operations commenced repackaging TRU waste from intermodals into SWB's. The project started with intermodal LO1704 and we repacked 1 SWB taking it slow to make sure specific steps / activities are followed under WIPP and project specific requirements. One preselected grid location was identified and a Vollrath container was filled per PRO-1729 procedural requirements.
- Continued to line intermodals for 865 and the Incinerator projects that were received.
- Received 16 empty containers (designated for 865 and Incinerator projects) and shipped 7.

### Activities planned for Friday, 10-24-03.

- Continue phase III operations of repackaging TRU waste from intermodal 1704 into SWB's.
- Continue to line intermodals that are received.
- Receive intermodals

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## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Friday, October 24, 2003 4:13 PM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/24/03

### Activities accomplished for Friday 10-24-03

- Continued repackaging TRU waste at tent #1 from intermodal LO1704 filling 3 SWB's.
- Continued to line intermodals for 865 and the Incinerator projects that were received.
- Received 7 empty containers (designated for 865 and Incinerator projects) and shipped 2.

### Activities planned for Monday, 10-27-03.

- Continue phase III operations of repackaging TRU waste from intermodal 1704 into SWB's.
- Continue to line intermodals that are received.
- On Tuesday and Wednesday WIPP representatives will perform an audit of the 903 Pad TRU waste repackaging activities.
- Receive intermodals

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**radio #3757**

**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 10/28/03

**Activities accomplished for Tuesday 10-28-03**

- The project was audited today by WIPP and New Mexico representatives regarding the TRU waste repackaging effort.
- Intermodal # LO1988 was staged inside tent #1 and two previous random locations selected under procedure PRO 1729 were removed and packaged into Vollrath containers. The project also repacked two SWB's.
- Continued to line intermodals for 865 project that were received.
- Received 6 empty containers (designated for 865 project) and shipped 5.

**Activities planned for Wednesday, 10-29-03.**

- Continue phase III operations of repackaging TRI waste from intermodal #LO1988 into SWB's.
- Continue to line intermodals that are received.
- Receive and ship intermodals

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## Lindsay, Thomas

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.aonscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 10/29/03

### Activities accomplished for Wednesday 10-29-03

- Continued repackaging activities from Intermodal # LO1988 filling 6 SWB's.
- The WIPP audit on the 903 Pad project had no deficiencies for TRU waste activities. One recommendation was identified for the project.
- Continued to line intermodals for 865 project that were received.
- Received 13 empty containers (designated for 865 project) and shipped 4.

### Activities planned for Thursday, 10-30-03.

- Complete repackaging efforts for LO1704 and LO1988 into SWB's.
- The residual waste in the two intermodals will be sampled by URS. If the activity < TRU then the residual waste will be blended with soils from the remaining grids/cells that are yet to be excavated at tent #1.
- Continue to line intermodals that are received.
- Receive and ship intermodals

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 10/30/03

**Activities accomplished for Thursday 10-30-03**

- Completed repackaging activities from Intermodal # LO1988 filling 3 SWB's.
- Shipped the first 5 SWB's to 664 facility for assay.
- URS took a representative sample from the residual soils in LO1988 (4930 pCi/g-Am field screen) and LO1704 (4075 pCi/g-Am field screen). Based on the preliminary numbers the activity < TRU levels. A mass balance will be performed to confirm the residual soils can be blended with the remedial soils from the remaining N cells to be excavated.
- Received 0 and shipped 0.

**Activities planned for Friday, 10-31-03:**

- Start repackaging efforts on intermodal # LO2174 into SWB's.
- Continue to line intermodals that are received.
- Receive and ship intermodals

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## Lindsay, Thomas

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**From:** Keating, Michael  
**Sent:** Monday, November 03, 2003 9:29 AM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 10/30/03

### Activities accomplished for Friday 10-30-03

- Start repackaging efforts on intermodal # LO2174 into SWB's.
- Shipped the 5 SWB's to 664 facility for assay.
- Packed 4 SWBs from # LO2174.
- Received 6 and shipped 4 (IP-2s).

### Activities planned for Monday, 11-03-03.

- Excavator operator in training
- Repack overloaded SWBs
- Continue to line intermodals that are received.
- Receive and ship intermodals

### Mike Keating, P.E.

K-H Project Manager

Phone: 303.966.4815

Nextel: 303.994.0691

E-mail: [michael.keating@rfets.gov](mailto:michael.keating@rfets.gov)

*"Only those who dare to fail greatly can ever achieve greatly."*

*-Robert F. Kennedy*

## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Tuesday, November 04, 2003 7:28 AM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 11/03/03

### Activities accomplished for Monday 11-03-03

- Repacked manually 3 overloaded SWB's into an empty SWB.
- Excavator operator was in training today.
- Received 16 and shipped 0 intermodals.

### Activities planned for Tuesday, 11-04-03.

- Continue to repack LO2174 into SWB's.
- Take random collection of soil from LO2174 and package into Vollrath container.
- Continue to line intermodals that are received.
- Ship 5 SWB's to 664 facility.
- Receive and ship 9 intermodals.

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## Lindsay, Thomas

---

**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/04/03

### Activities accomplished for Tuesday 11-04-03

- Repacked 4 SWB's from LO2174.
- Filled two vollrath containers today from LO2174 at randomly selected areas.
- Received 5 SWB's from 664 and shipped 5 more back to 664 for assay.
- Received 12 and shipped 9 intermodals.

### Activities planned for Wednesday, 11-05-03.

- Complete repackaging of LO2174 into SWB's.
- Continue to line intermodals that are received.
- Ship 5 SWB's to 664 facility.
- Receive empty intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; bourssard marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/05/03

**Activities accomplished for Wednesday 11-05-03**

- Repacked 4 SWB's from LO2174 which completed this intermodal.
- URS took a sample of the residual waste from LO2174.
- Received 5 SWB's from 664 and shipped 5 more back to 664 for assay.
- Received 12 and shipped 0 intermodals.

**Activities planned for Thursday, 11-06-03.**

- Start repackaging the last intermodal LO2186 into SWB's.
- Continue to line intermodals that are received.
- Ship 5 SWB's to 664 facility.
- Receive empty intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/05/03

Activities accomplished for Thursday 11-06-03

- Repacked 8 SWB's from LO2186.
- Packaged waste into two Vollrath containers from LO2186.
- Shipped 5 more SWB's to 664 for assay and received 5 from 664..
- Received 7 and shipped 0 intermodals.

Activities planned for Friday, 11-07-03.

- Complete repackaging SWBs from intermodal LO2186. This will complete the TRU waste repackaging effort.
- Recommence excavation of N cells in tent #1.
- Continue to line intermodals that are received.
- Receive empty intermodals.

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/07/03

**Activities accomplished for Friday 11-07-03**

- Completed repackaging 4 SWB's from LO2186. This completes the TRU Waste repackaging effort at 903 Pad.
- Removed excess equipment from tent #1 and setup activities to recommence excavation at the N grids, N1 - N3 inside tent #1. Filled one intermodal at cell N1, asphalt.
- Received 10 and shipped 0 intermodals.

**Activities planned for Sunday, 11-09-03.**

- Continue excavation activities on cells N1 - N3.
- Line intermodals that are received.
- Receive empty intermodals.

**Thomas M. Lindsay**

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**radio #3757**

**Lindsay, Thomas**

---

**From:** McQueary, Steven  
**Sent:** Sunday, November 09, 2003 3:53 PM  
**To:** Bemski, Mike; Butler, Lane; Demos, Nick; Foreman, Harry; Keating, Michael; Lindsay, Thomas; McQueary, Steven; Nesta, Stephen; Norland, Lee; Plappert, Robert; Snyder, Duke; Spence, Tracey; Wiemelt, Karen  
**Subject:** 903 Pad Status Report 11-09-03

Activities accomplished for Sunday 11-09-03

- Continued excavation of cells N1-N3. Pre-screen samples on cells N1-N3 all indicated LLW. Confirmation completed on cell N1 @ 2.78' is 0.0 pCi/g.
- Repaired silt fencing along Central Ave.
- Lined intermodals for 903 Pad.
- Received 0 and shipped 0, filled 9 intermodals.

Activities planned for Monday, 11-10-03.

- Continue excavation activities on cells N1 - N3.
- Line intermodals that are received.
- Receive empty intermodals.

*Steven McQueary  
(303) 966-4228 Office  
(303) 994-3245 Cell  
Envirocon, Inc.*



## Lindsay, Thomas

**From:** Lindsay, Thomas  
**Sent:** Monday, November 10, 2003 4:36 PM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 11/10/03

### Activities accomplished for Monday 11-10-03

- Continued excavation of cells N2-N3 filling 10 intermodals today.
- Took two confirmation samples at cells N2/N3. Cell N2 was 0.0 pCi/g at 2.8' deep and N3 was 0.0 pCi/g at 2.7' deep.
- Lined intermodals for 903 Pad.
- Received 18 and shipped 0.

### Activities planned for Tuesday, 11-11-03:

- Continue excavation activities on cells N4 - N6.
- Take pre-screen samples and confirmation samples.
- Ship and receive 5 SWB's from 664 Facility.
- Line intermodals that are received.
- Receive empty intermodals

Thomas M. Lindsay  
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T-124A  
X5705  
cell 994-2724  
radio #3757

## Lindsay, Thomas

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**From:** Lindsay, Thomas  
**Sent:** Wednesday, November 12, 2003 8:01 AM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gematt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 11/11/03

### Activities accomplished for Tuesday 11-11-03

- Continued excavation of cells N4-N5 filling 4 (2 asphalt, 2 soil) intermodals today.
- Took pre-screen sample at N4 - LLW.
- Received 5 SWB's from 664 Facility.
- Shut the project down around noon due to high winds.
- Lined intermodals for 903 Pad.
- Received 0 and shipped 0.

### Activities planned for Wednesday, 11-12-03.

- Continue excavation activities on cells N4 - N6.
- Take pre-screen samples and confirmation samples.
- Ship and receive 5 SWB's from 664 Facility.
- Line intermodals that are received.
- Receive empty intermodals

Thomas M. Lindsay  
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X5705  
cell 994-2724  
radio #3757

**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/12/03

**Activities accomplished for Wednesday 11-12-03**

- Continued excavation of cells N4-N6 filling 8 (2 asphalt, 6 soil) intermodals today.
- Took pre-screen samples at N5/N6 - LLW.
- Received 5 and shipped 5 SWB's to 664 Facility.
- Took a confirmation sample at cell N4 but it failed at 41 pCi/g. This cell will be over-excavated.
- Lined intermodals for 903 Pad.
- Received 11 and shipped 0.

**Activities planned for Thursday, 11-13-03.**

- Continue excavation activities on cells N4 - N6.
- Take confirmation samples.
- Ship and receive 5 SWB's from 664 Facility.
- Line intermodals that are received.
- Receive empty intermodals

**Thomas M. Lindsay**  
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**radio #3757**

## Lindsay, Thomas

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/13/03

### Activities accomplished for Thursday 11-13-03

- Continued excavation of cells N4-N6 filling 10 intermodals today.
- Shipped 5 SWB's to 664 Facility.
- Took confirmation samples at cells N4/N5. Cell N4 was 0.0 pCi/g at 3.30' deep. Cell N5 failed at 36 pCi/g. This cell will be over-excavated.
- Lined intermodals for 903 Pad.
- Received 20 (2 were repaired locally) and shipped 0.

### Activities planned for Friday, 11-14-03.

- Continue excavation activities on cells N5/N6.
- Take confirmation samples.
- Ship and receive 5 SWB's from 664 Facility.
- Line intermodals that are received.
- Ship and receive empty intermodals

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/14/03

**Activities accomplished for Friday 11-14-03**

- Completed excavation of cells N5-N6 filling 7 intermodals today.
- Received 3 SWB's from 664 Facility.
- Took confirmation samples at cells N5/N6. Cell N5 was 0.0 pCi/g at 3.23' deep. Cell N6 failed at 53 pCi/g 2.88' deep and was over-excavated. A new confirmation was taken later at N6 0.9 pCi/g at 3.41' deep.
- Lined intermodals for 903 Pad.
- Received 2 and shipped 5.

**Activities planned for Monday, 11-17-03.**

- Complete excavation activities in tent #1 over cell N6, decon the equipment and move over to tent #2 to complete the excavation over the L cells.
- Backfill cells at tent #1 N1 through N6. Prepare to pull tent #1 to the east 6 cells.
- Ship and receive 5 SWB's from 664 Facility.
- Line intermodals that are received.
- Ship and receive empty intermodals

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/14/03

**Activities accomplished for Monday 11-17-03**

- Completed excavation at tent #1 filling 1 intermodal. Deconned the equipment and moved it over to tent #2. Started excavation on the remaining odd shape over the L cells filling 1 intermodal.
- Downposted tent #1, backfilled cells N1 through N6. Moved the support equipment and setup to pull tent #1 to the east over the last 6 cells.
- High winds onsite today affected outside support activities.
- Received 3 SWB's from 664 Facility.
- Lined intermodals for 903 Pad.
- Received 8 and shipped 11.

**Activities planned for Tuesday, 11-18-03.**

- Continue excavation activities in tent #2 over the L cells.
- Pull tent #1 to the east 6 cells.
- Ship and receive 5 SWB's from 664 Facility.
- Line intermodals that are received.
- Ship and receive empty intermodals

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**Lindsay, Thomas**

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**From:** Lindsay, Thomas  
**Sent:** Tuesday, November 18, 2003 4:49 PM  
**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.  
**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas  
**Subject:** 903 Pad Status Report 11/18/03

Activities accomplished for Tuesday 11-18-03

- Continued excavation on the remaining odd shape over the L cells filling 6 intermodals. A prescreen over L6 showed potential TRU waste. One intermodal LO3145, was filled and is potentially TRU with a preliminary gamma analysis of 28.3 nCi/g - Am. This container has been stored at 904 Pad TRU Waste Storage Area.
- High winds onsite today affected activities both in and outside the tent structure.
- Lined intermodals for 903 Pad.
- Received 2 and shipped 3.

Activities planned for Wednesday, 11-19-03

- Continue excavation activities in tent #2 over the L cells.
- Pull tent #1 to the east 6 cells.
- Ship the last SWB's for analysis to 664 Facility.
- Line intermodals that are received.
- Ship and receive empty intermodals

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/19/03

Activities accomplished for Wednesday 11-19-03

- Continued excavation on the remaining odd shape over the L cells filling 6 intermodals.
- Pulled tent #1 to the east six cells and reballasted the tent structure.
- Shipped the last SWB's to 664 for analysis. At this point, of the 49 SWB's generated from repackaging the TRU intermodals, 5 SWB's are TRU levels.
- Lined intermodals for 903 Pad.
- Received 6 and shipped 9.

Activities planned for Thursday, 11-20-03.

- Continue excavation activities in tent #2 over the L cells.
- Complete setup activities for tent #1 and perform smoke test.
- Line intermodals that are received.
- Ship and receive empty intermodals

**Thomas M. Lindsay**  
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**radio #3757**



## Lindsay, Thomas

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/20/03

### Activities accomplished for Thursday 11-20-03

- Continued excavation on the remaining odd shape over the L cells filling 6 intermodals.
- Completed setup of tent #1, and the filter techs changed out the HEPA filters on both Ionex units today.
- Lined intermodals for 903 Pad.
- Received 20 (8 are from the new purchase order) and shipped 12.

### Activities planned for Friday, 11-21-03.

- Complete excavation activities in tent #2 over the L cells.
- Decon the equipment and downpost the tent structure.
- Line intermodals that are received.
- Ship and receive empty intermodals

**Thomas M. Lindsay**

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/23/03

**Activities accomplished for Sunday 11-23-03**

- Completed excavation on the remaining odd shape over the L cells filling 5 intermodals (soil).
- Started excavation at tent #1 removing asphalt over cells N7 - N9 filling 4 intermodals (asphalt).
- Took prescreen samples from cells N7/N8/N9 - LLW.
- Lined intermodals for 903 Pad.
- Received 0 and shipped 0.

**Activities planned for Monday, 11-24-03.**

- Continue excavation activities in tent #1 over the remaining N cells.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive empty intermodals

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/24/03

Activities accomplished for Monday 11-24-03

- Continued excavation at tent #1 over cells N7 - N9 filling 4 intermodals.
- Took a confirmation sample at cell N7 that failed 41.9 pCi/g at 2.32' deep.
- Lined intermodals for 903 Pad.
- Received 14 and shipped 3.

Activities planned for Tuesday, 11-25-03.

- Continue excavation activities in tent #1 over the remaining N cells.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive empty intermodals

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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthiven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Jaramillo, Jeremy R.

**Subject:** 903 Pad Status Report 11/25/03

**Activities accomplished for Tuesday 11-25-03**

- Continued excavation at tent #1 over cells N7 - N9 filling 8 intermodals.
- Took two confirmation samples at cells N7/N8. Only N7 passed at 0.0 pCi/g 2.84' deep. Cell N8 failed at 2.29' deep 5.8 pCi/g.
- Pulled tent #2 to the north to get it out of the way for future work relative to the Lip project.
- Lined intermodals for 903 Pad.
- Received 14 and shipped 0.

**Activities planned for Wednesday, 11-26-03.**

- Continue excavation activities in tent #1 over the remaining N cells.  
Take confirmation samples.
- Line intermodals that are received.
- Ship and receive empty intermodals

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**Lindsay, Thomas**

---

**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Jaramillo, Jeremy R.; Lindsay, Thomas

**Subject:** 903 Pad Status Report 11/26/03

Activities accomplished for Wednesday 11-26-03

- Continued excavation at tent #1 over cells N8 - N9 filling 3 intermodals.
- Took one confirmation sample at cell N8. Cell N8 was 2.8' deep 0.0 pCi/g.
- Pulled tent #2 to the west for its final move to get it out of the way for future work relative to the Lip project.
- Lined intermodals for 903 Pad.
- Received 6 and shipped 5.

Activities planned for Monday, 12-01-03.

- Continue excavation activities in tent #1 over cell N9 and O1 to O3.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive empty intermodals.

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radio #3757

**Lindsay, Thomas**

---

**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 12/01/03

Activities accomplished for Monday 12-01-03

- Continued excavation at tent #1 over cells N9 and O1 - O3 filling 12 intermodals.
- Took two confirmation samples at cells N9/O3 but only N9 passed. Cell N9 was 2.5' deep 0.0 pCi/g for both the confirmation and field duplicate samples. Cell O3 failed at 2.5' deep 5.6 pCi/g and will be over-excavated.
- Removed asphalt from cells O1 - O3 at tent #1 and took prescreen samples, all LLW.
- Lined intermodals for 903 Pad.
- Received 8 (2 from EOU and 6 new containers) and shipped 3.

Activities planned for Tuesday, 12-02-03.

- Continue excavation activities in tent #1 over cells O1 to O3.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive empty intermodals.

**Thomas M. Lindsay**  
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**cell 994-2724**  
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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 12/02/03

**Activities accomplished for Tuesday 12-02-03**

- Continued excavation at tent #1 over cells O1 - O3 filling 9 intermodals.
- Took two confirmation samples at cells O3/O2 but only O3 passed. Cell O3 was overexcavated to 3.45' deep 1.6 pCi/g. Cell O2 failed at 3.15' deep 12 pCi/g and will be over-excavated tomorrow.
- Received 20 new IP1 containers for repacking 17 random intermodals which will be sent to 664 counting facility.
- Lined intermodals for 903 Pad.
- Received 3 (repaired locally in town and returned) and shipped 0 offsite.

**Activities planned for Wednesday, 12-03-03.**

- Continue excavation activities in tent #1 over cells O2/O1.
- Take confirmation samples.
- Line intermodals that are received.
- Ship and receive empty intermodals.

**Thomas M. Lindsay**  
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**cell 994-2724**  
**radio #3757**

**Lindsay, Thomas**

**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; 'harlen.ainscough@state.co.us'; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; 'rlewis5853@aol.com'; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 12/03/03

Activities accomplished for Wednesday 12-03-03

- Continued excavation at tent #1 over cells O1/O2 filling 2 intermodals.
- Took one confirmation sample at cell O2. Cell O2 was overexcavated to 3.53' deep 0.0 pCi/g.
- The project encountered problems first off this morning when the east rolldown door wouldn't open/close. Gash Electric was requested to come down and trouble shoot the problem. It was after lunch before the door was repaired and work resumed inside tent #1.
- Gash Electric also removed the last power pole in the Lip Area for site preparation activities.
- Lined intermodals for 903 Pad.
- Received 24 (2 new containers, 22 from EOU) and shipped 4 offsite.

Activities planned for Thursday, 12-04-03.

- Complete excavation activities in tent #1 over cell O1.
- Take confirmation sample.
- Line intermodals that are received.
- Ship and receive empty intermodals.

**Thomas M. Lindsay**  
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**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 12/04/03

Activities accomplished for Thursday 12-04-03

- Completed excavation at tent #1, (officially the 903 Pad), over cell O1 filling 7 intermodals.
- Took the final confirmation sample at cell O1 0.0 pCi/g at 4.15' deep.
- The project had problems again this morning with the east rolldown door but it was soon repaired.
- The Filter techs changed out the filters in the Ionex unit.
- Deconned the equipment, down-posted tent #1 and started backfilling cells N7 - O3.
- Mobilized the scale into tent #2 and recalibrated it for the repackaging effort.
- Lined intermodals for 903 Pad.
- Received 4 and shipped 12 offsite..

Activities planned for Friday, 12-05-03.

- Complete backfilling cells N7 through N9 and O1 through O3.
- Pull tent #1 to the south and then to the west, adjacent to tent #2 at this time.
- Prepare for repackaging 17 random intermodals into IP-1 boxes to be counted at 664 Facility.
- Line intermodals that are received.
- Ship and receive empty intermodals.

**Thomas M. Lindsay**  
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**radio #3757**

**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 12/05/03

Activities accomplished for Friday 12-05-03

- Completed backfilling cells N7 - O3.
- Moved the ionex unit, generators and entry connex at tent #1. Pulled tent #1 to the south and then west adjacent to tent #2. Reballasted tent #1 and started setting up equipment again.
- Lined intermodals for 903 Pad.
- Received 4 and shipped 0 offsite.

Activities planned for Monday, 12-08-03.

- Complete tent #1 setup and perform a smoke test.
- Marquez Construction will weld a new cutting edge on the bucket of the trackhoe in tent #1.
- Start repackaging 17 random intermodals into IP-1 boxes to be counted at 664 Facility.
- Line intermodals that are received.
- Ship and receive empty intermodals.

**Thomas M. Lindsay**

**RISS/ER**

**T-124A**

**X5705**

**cell 994-2724**

**radio #3757**

**Lindsay, Thomas**

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**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 12/08/03

**Activities accomplished for Monday 12-08-03**

- Marquez Construction welded a new cutting edge on the bucket of one trackhoe.
- Project started the installation of the snorkel on the exhaust of the trackhoe after welding was completed. Started framing for the exhaust of the second ionex unit at the tent structure.
- Lined intermodals for 903 Pad.
- Received 28 (12 new ones, 16 from EOU) and shipped 12 offsite.

**Activities planned for Tuesday, 12-09-03.**

- Complete tent #1 setup with the second ionex unit and the snorkel exhaust, perform a final smoke test.
- Start repackaging 17 random intermodals into IP-1 boxes to be counted at 664 Facility.
- 903 Lip Area Pre-Evolution is scheduled for Wednesday morning - Bldg. 060 at 8:00 a.m.
- Line intermodals that are received.
- Ship and receive empty intermodals.

**Thomas M. Lindsay**  
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**T-124A**  
**X5705**  
**cell 994-2724**  
**radio #3757**

## Lindsay, Thomas

**To:** Castaneda, Norma; Dreith, Gary; Gary Kleeman; Spreng, Carl; Mark Aguilar; harlen.ainscough@state.co.us; Butler, Lane; Wiemelt, Karen; Norland, Lee; Geimer, Raymond; rlewis5853@aol.com; Shafer, Douglas; Keating, Michael; Primrose, Annette; Snyder, Duke; Plappert, Robert; Foreman, Harry L.; Rueter, Ruth; Bean, Curtis; Blake, Chad; Gernatt, Steven; Smith, James; Nesta, Stephen; Broussard, Marcella; Horne, Alan; Ruthven, Mark A.

**Cc:** Burmeister, Mark; Spence, Tracey; McQueary, Steven; Lindsay, Thomas

**Subject:** 903 Pad Status Report 12/09/03

### Activities accomplished for Tuesday 12-09-03

- Completed hookup of the snorkel on the trackhoe and both lonex units at tent #1.
- Performed a smoke test at tent #1.
- After the pre-evolution briefing on repackaging waste the project repackaged 1 container this afternoon, LO2608 or GFLU001094 into an IP-1 box.
- Lined intermodals for 903 Pad.
- Received 4 (2 new ones, 2 from EOU) and shipped 12 offsite.

### Activities planned for Wednesday, 12-10-03.

- Continue repackaging effort at tent #1.
- Conduct Pre-Evolution Briefing at Bldg. 060 8:00 a.m. for the 903 Lip Area.
- Begin work at the 903 Lip Area.
- Line intermodals that are received.
- Ship and receive empty intermodals.

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**COMPLETE DATA SET COMPACT DISC  
ACCELERATED ACTION DATA**

Admin Record Master Entry (FISF_AR ADMIN RECORD)									
CERCLA Administrative Record Database									
Activity	Level	Doc. No.	Doc. Date	Est. Pages	Routine	Status	Print		
BZ	A	000807	02/17/2005	360	YES, ROUTINE	PRELIM			
Title: Final Closeout Report for IHSS Group 900-11, IHSS 112-903 PAD									
Internal Code: 05-RF-00183; KLV-013-05				Rev No		Tag		L	
<div>Document Type: TRANSMITTAL LETTER</div> <div><div>Date Received: 02/21/2005</div><div>Login Date: 03/07/2005</div><div>Date Entry/Date: 03/07/2005</div><div>Receipt Type: C</div><div>Prelim History: <input type="checkbox"/></div></div> <div><div>Create Date: 03/07/2005</div><div>By User: N711573</div><div>Last Modified: 09/20/2005</div><div>By User: N711573</div></div> <div><div>Login By: HY</div><div>Indexer: HY</div><div>Under Review: <input type="checkbox"/></div><div>Public History: <input type="checkbox"/></div><div>Core A/R Document?: <input type="checkbox"/></div></div>									